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アジ化水素酸の工程内挙動に係る研究

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動力炉・核燃料開発事業団

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アジ化水素酸の工程内挙動に係わる研究

本間　俊司*、松本　史朗*

要　　旨

核燃料再処理施設における火災および爆発事故シナリオのひとつにアジ化水素による爆発事故が挙げられる。これまでにアジ化水素による爆発事故についての報告は、その爆発も極めて限られた条件のもとで起こるとされており、再処理施設では多量のアンモニアの発生下で銀と化合したアジ化物（アジ化銀）と考えられる化合物の爆発例しか報告されておらず、現状の国内の化学プロセス条件では爆発が発生することは考え難い。しかし、プロセス内での定量的挙動の解明が現状十分とは言えないこと、および将来、アジ化水素の発生が有意となるプロセスを採用する可能性があることから、これらプロセスの安全性の一層の向上および安全裕度の明確化のためにアジ化水素の挙動を把握しておく必要がある。本研究では、アジ化水素についての基礎的データの取得を目的として既往の文献に基づいた調査を行なった。特に、アジ化水素酸の再処理工程内における、(1)生成・分解メカニズムに関する調査、(2)マスフローシミュレーションに必要なデータに関する調査、の２点を中心に作業を行なった。調査の結果は、それら文献のリストをまとめて一覧とし、それらの要旨を記載した。

本報告書は、埼玉大学工学部応用化学科が、動力炉、核燃料開発事業団の委託により実施した研究の成果である。

契約番号：
事業団担当部課室および担当者：
＊　埼玉大学工学部応用化学科

目　次

緒　言

核燃料再処理施設における火災および爆発事故シナリオのひとつにアジ化水素による爆発事故が挙げられる。これまでに、アジ化水素が直接の原因となる爆発事故についての報告はなく、その爆発も極めて限られた条件のもとで起こるとされている。一方、アジ化水素自身は、再処理工程のU-Pu分配工程で使用されるヒドラジンの化学反応で生成する。そして、気液平衡関係によって気相および液相に存在し、さらに液相中のアジ化水素はTBPへ抽出されるため、工程内の広い範囲へ拡散することになる。しかしながら、その基礎的な気液平衡関係、分配平衡関係および反応のメカニズムはあまりよく知られておらず、国際的にもデータの乏しい状態である。

そこで、再処理工場に関して、現有施設の安全裕度の確認および新規計画施設の安全な設計のための基礎的データの取得を目的として、アジ化水素に関する次のような調査を実施した。

1　アジ化水素酸の再処理工程内での生成・分解メカニズムに関する調査

2　プロセスのマスフローシミュレーションに必要なデータに関する調査

3　その他

調査の方法は、まず1981年以降のChemical Abstractから、Hydrazoic Acidをキーワードとして検索を行なった。次に題名、その他の情報から上記目的のために必要な論文・資料を拾いだすことにした。調査の結果は、上記３つのカテゴリーに分類し、それら文献の要旨をそれぞれ記載した。

調 査 結 果

以下に、検索を行なった論文あるいは資料の要旨を各カテゴリー毎に記載する。要旨の記載のないものは、入手不可能だったものや、ロシア語など英語以外の文献で翻訳不可能だったものである。各レコードのSOURCE, KEYWORD, ABSTRACT, COMMENTはそれぞれ、出典、キーワード、要旨およびその論文に対するコメントである。

1 アジ化水素酸の反応のメカニズム

SOURCE

Photochemistry of O_3/HN_3 Mixture

Ongstad, A. P. / Coombe, R. D. / Neumann, D. K. / Stech, D. J.

J. Phys. Chem., 93, 2, pp549-52(1989)

KEYWORD

ozone hydrazoic acid photolysis kinetics; singlet atom oxygen hydrazoic acid photolysis

ABSTRACT

HN_3とO_3の気体混合物が249nmのKrFパルスレーザーによって光分解した。光分解によって$O(^1D)$原子が生成し、それがHN_3と反応しN_3ラジカルを生成し、またN_3ラジカルと反応し電気的に励起された$NO(A^2\Sigma^+)$を生成した。これらの反応の速度定数は、実験的に得られたNO A→X放射の時間変化と動力学モデルから計算された$NO(A^2S^+)$密度との比較によって決定された。$O(^1D) + HN_3$および$O(^1D) + N_3$反応の速度定数はそれぞれ、$(3.2\pm1.0)\times10^{-10}cm^3s^{-1}$および$(1.0\pm0.3)\times10^{-10}cm^3s^{-1}$と決定された。

COMMENT

HN_3がパルスレーザーによって光分解するという事実から、放射線の相互作用によって分解するという可能性も示唆される。また、この情報はHN_3の分析方法の検討にも有用かも知れない。

SOURCE

Photochemical Production of NO($A^2\Sigma^+$) in Mixture of HN_3 and O_3

Neumann, David K. / Coombe, Robert D. / Ongstad, Andrew P. / Stech, Daniel J.

Proc. SPIE-Int. Soc. Opt. Eng., 875, pp142-8(1988)

KEYWORD

nitric oxide excited photoprodn ozone; hydrazoic acid ozone photolysis nitric oxide

ABSTRACT

オゾン(O_3)およびアジ化水素(HN_3)混合気体中において電気的に励起されたNO($A^2\Sigma^+$)の光化学的な生成について研究された。248nmのレーザーによって電気的に励起されたNO(A)の生成に関する動力学的な速度定数は、NO(A-X)の一時的およびスペクトル的な放射から計算された。NO(A)は次の2つのステップによって生成する：$O(^1D) + HN_3 \rightarrow OH + N_3$、$k = 3.2 \pm 1.0 \times 10^{-10} cm^3 s^{-1}$; $O(^1D) + N_3 \rightarrow NO(A) + N_2$、$k = 1.0 \pm 0.3 \times 10^{-10} cm^3 s^{-1}$。$v' = 2$ 以上のNO(A) の振動励起からの放射は、200nm～250nmの範囲で観察された。

COMMENT

上記論文とほぼ同様な報告。

SOURCE

Photodissociation of HN_3: direct formation of hydrogen atoms

ABSTRACT

193および248nmにおけるHN_3の1光子分解の一次的な生成物である水素原子が観察された。その水素原子はダイレーザーを用いたVUVスペクトロスコピーによって検出された。量子収率はϕ(193nm) = 0.15 ± 0.02およびϕ(248nm) = 0.24 ± 0.05であった。H_2Sの光分解はリファレンスとして用いた。

COMMENT

この情報はHN_3の分析方法の検討に有用かも知れない。

SOURCE

Decomposition of hydrazoic acid in nitric acid

Maya, Brian M. / Stedman, Geoffrey

J. Chem. Soc., Dalton Trans., 2, pp257-9(1983)

KEYWORD

hydrazoic acid oxidn kinetics; nitric acid oxidn hydrazoic acid; safety hydrazoic acid oxidn

ABSTRACT

HN_3は97℃硝酸溶液中でN_2、N_2OおよびNOに分解する。反応は酸によって強く触媒化され、分解反応速度はHN_3濃度の１次である。提案された機構はNO_2^+による求電子反応を含みN_3ONOを生成する。N_3ONOは、$N_2 + 2NO^{\cdot}$あるいは$N_3^{\cdot} + NO_2^{\cdot}$のように分解するであろう。$N_2O$は次の反応機構によって生成する。

$$2NO_2^{\cdot} \rightarrow N_2O_4$$
$$N_2O_4 + HN_3 \rightarrow N_3NO + HNO_3$$
$$N_3NO \rightarrow N_2 + NO_2$$

COMMENT

HN_3の生成・消滅の反応機構。

SOURCE

Reaction of hydrazoic acid with actinoids

Zil'berman, B. Ya. / Lelyuk, G. A. / Mashkin, A. N. / Fedorov, Yu. S.

Radiokhimiya, 30, 6, pp837-40(1988)

KEYWORD

hydrazoic acid reaction actinoid; plutonium 4 effect hydrazoic formation; uranium 4 oxidn hydrazoic effect; neptunium 6 redn hydrazoic acid

ABSTRACT

アジ化水素（HN_3）は、テクネチウムの存在下でヒドラジンの酸化によって生成される。またプルトニウム(IV)はHN_3の収率を低下させる。硝酸溶液（水相および有機相）においては、ウラン(IV)の酸化速度を低下させる。ネプツニウム(VI)はHN_3によってネプツニウム(V)に還元される。TBPによるプルトニウム(IV)の抽出データによって、プルトニウム(IV)は低硝酸濃度においてHN_3と錯体を形成していることが示唆される。

COMMENT

再処理プロセス内のHN_3の反応に関する定性的な記述。

2　アジ化水素酸のマスフローシミュレーションに必要なデータ

SOURCE

The Behaviour of Decomposition Products of Hydrazine in PUREX Process
Zil'berman, B. Ya. / Lelyuk, G. A. / Mashkin, A. N. / Fedorov, Yu. S.
Int.Solvent Extr. 1990, Part A, pp.759-764(1992)

KEYWORD

fuel reprocessing PUREX hydrazine decompn product; reactor fuel reprocessing hydrazine decompn product; hydrazoic acid redox interaction PUREX; extn PUREX hydrazine decompn product; catalytic oxidn hydrazine PUREX reprocessing

ABSTRACT

触媒としてTcおよびPu(III)が存在するPurexプロセスにおいて、HN_3、NH_4NO_3およびガスがヒドラジンの放射線分解とその硝酸による酸化によって生成する。水相（単一相）および二相系（有機相および水相）について触媒酸化プロセスの相異、酸化還元反応およびU、Pu、Npの抽出に対するHN_3の影響について検討を行なった。実プロセスにおいて、HN_3はPuストリッピングプロセスで生成され、第1サイクルに流入し、Uの溶媒への高負荷の影響で洗浄液側へ除去される。これによってU溶液のリサイクルが困難となる。Puストリップ液洗浄後の溶媒再生フローシートにおいて、HN_3は界面へのパラジウムの析出を開始させる。また(VI)→(V)の反応によってNpの抽出を妨害する。

COMMENT

HN_3のマスフローシミュレーションに必要な情報。Purexプロセスで注目される成分濃度についての時間変化および抽出器内の濃度プロフィールが記載されている。

SOURCE

Stability Constants of Hydrazoic Acid-TBP Complex in Hexadecane Solution

Furton, Kenneth G. / Purnell, J. Howard / Stedman, Geoffrey

J. Chem. Soc., Faraday Trans., 86, 21, pp3561-5(1990)

KEYWORD

gas chromatog hydrogen bond complex; hydrazoic acid TBP complex stability thermodn

ABSTRACT

ECPによるガスクロマトグラフによって、ヘキサデカン中のHN_3-TBPの錯体形成について研究を行なった。温度範囲は298～338K、HN_3濃度は0.55mol/l以上で行なった。HN_3-TBP錯体の安定度定数をdilution-depletion理論に従って求めた。このときの安定度定数は40～100l/molであった。この反応に関するエンタルピーおよびエントロピーはそれぞれ、-19,200 $Jmol^{-1}$および-26.3 $Jmol^{-1}K^{-1}$であった。本結果は、前報のHCl-TBP錯体の場合とよく相関づけられた。

COMMENT

HN_3のマスフローシミュレーションに必要な情報。HN_3のTBPへの分配係数推算の手掛かりとなる。

SOURCE

Extraction of Hydrazoic Acid by Tributyl Phosphate from Nitric Acid Solutions Containing Uranium

Zil'berman, B. Ya. / Lelyuk, G. A. / Mashkin, A. N. / Fedorov, Yu. S.

Radiokhimiya, 31, 5, pp53-7(1989)

KEYWORD

uranium effect hydrazoic acid extn; butyl phosphate extn hydrazoic acid

ABSTRACT

硝酸ウラニルが存在しているときとそうでないときの両方について、TBPによるアジ化水素の抽出データを得た。本研究の実験条件において、硝酸塩とアジ化水素との錯体は、その抽出に影響を及ぼさなかった。アジ化水素と硝酸ウラニルの同時抽出は既存の数学モデルに基づいて計算することができた。HN_3の分配係数はアジ化水素がウラン(IV)と一緒に抽出されるとき、ウラン(VI)の時に比べて幾分小さかった。またアジ化水素の抽出に対する温度の影響は大きくなかった。

COMMENT

HN_3のTBPへの分配係数のデータ

SOURCE

The behavior of hydrazoic acid in PUREX process solutions under safety aspects

Ertel, D. / Schmieder, H. / Stollenwerk, A. H.

Nukl. Entsorgung, 4, Saf. Nucl. Fuel Cycle, pp107-19(1989)

KEYWORD

PUREX fuel reprocessing hydrazoic acid safety; reactor fuel reprocessing PUREX hydrazoic acid

ABSTRACT

PUREXプロセスにおけるHN_3の生成、性質および挙動に関して、まず、安全上問題となる情報として考察された。1962年から採用されているUSAECの安全に関する考え方（安全基準）を簡単に紹介し、最近の情報に照らしあわせて危機評価(critical evaluation)を問題とした。最近、カールスルーエ再処理プラント（WAK）におけるプロセス溶液中のHN_3について系統的な解析が行なわれ、ほとんどのHN_3が有機相中に現われ（有機相のHN_3蒸気圧が水相溶液に比べて極めて小さいためである）、危険なHN_3濃度は、どの場所にも見いだせなかったとしている。さらに、HN_3生成速度はWAKの1Bおよび2B抽出器（ミキサーセトラ）において初めて決定された。そこから、通常のU(IV)を外部から供給する運転モードでは、電解還元によって内部でU(IV)を生成する運転モードに比べてより多くのHN_3を生成することが結論付けられた。まとめて言えば、アメリカの安全基準は、非常に厳しい値に制限されているにもかかわらず、実際のプロセスがどのようになろうともその基準によって制限されることはなく、結果的に高レベルの安全性を保証していることになる。PUREXプロセス内のHN_3の挙動についてのさらに必要な実験の計画についても簡単にまとめている。

COMMENT

WAKの実験結果。シミュレーション評価に使用可能。

SOURCE

Behavior of palladium in the hydrazoic acid-tributyl phosphate-nitric acid system

Zil'berman, B. Ya. / In'kova, E. N. / Lelyuk, G. A. / Mashkin, A. N.

Radiokhimiya, 32, 4, pp45-9(1990)

KEYWORD

extn palladium TBP hydrazoic acid effect; nitric acid extn palladium TBP; butyl phosphate extn palladium

ABSTRACT

(入手不可)

COMMENT

3　その他（分析手法、蒸留操作）

SOURCE

Short Note on Nonexplosive Distillation of Hydrazoic Acid (HN_3)

Sood, R. K. / Nya, A. E., J. Therm. Anal., 20, 2, pp491-3(1981)

KEYWORD

Hydrazoic Acid Distn Safety

ABSTRACT

13%のNaN_3と50%H_2SO_4および75%H_3PO_4とを反応させ、その溶液を蒸留することによってアジ化水素を生成させた。この時、沸点近傍に温度を維持しながら50%H_2SO_4あるいは75%H_3PO_4をNaN_3溶液に滴下し、蒸留操作を行なった。蒸留中にHN_3濃度が高くなると爆発が起こるので、これを防ぐためにNaN_3溶液に少量のNaOHを加えた。また、HN_3からSO_4^{2-}の不純物を取り除くために、蒸留操作を行なう前30分間と蒸留中に窒素ガスを供給している。本論文では、爆発が起きないような蒸留操作の条件を見いだすために、様々な条件（温度、圧力、窒素パージの有無）によって蒸留を行ない、その結果を報告している。

COMMENT

蒸留操作の事例として興味深い報告。

SOURCE

Sampling Tubes for the Collection of Selected Acid Vapors in Air

Williams, Kenneth E. / Esposito, George G. / Rinehaet, Douglas S.

Am. Ind. Hyg. Assoc. J., 42, 6, pp476-8(1981)

KEYWORD

Inorg Acid Detn Air Sampler; Oog Acid Detn Air Sampler; Acid Detn Sampling App Air; Acetic Acid Detn Sampler Air; Hydrochhloric Acid Detn Sampler Air; Hydrazoic Acid Detn Sampler Air

ABSTRACT

空気からの選択的な酸蒸気の捕集について報告する。既知濃度の無機および有機の酸蒸気を生成し、炭酸ナトリウムを含浸したChromosorb Pを充填した固体吸着管に捕集した。被分析物は蒸留水によって吸着剤から洗浄した後、通常の方法によっ

て分析を行なった。実験データによれば、平均の回収率は88から103%であった。集塵装置およびチューブによって捕集されたサンプルとの比較検討も行なった。

COMMENT

空気中のアジ化水素の分析を行なっている。

SOURCE

Time-Resolved Infrared Spectral Photography: Study of Laser-Initiated Explosions in Hydrazoic Acid

Avouris, P. / Bethune, D. S. / Lankard, J. R. / Ors, J. A. / Sorokin,P. P.

J. Chem. Phys., 74, 4, pp2304-2312(1981)

KEYWORD

Explosions Hydrazoic Acid IR; Laser Induced Explosion Hydrazoic Acid

ABSTRACT

TRISP（Time-Resolved Infrared Spectral Photography）法の改良について記述する。炭酸ガスレーザーによって誘起されたHN_3／DN_3気体混合物の熱爆発について研究を行なった。反応の温度変化を測定するためにHClを加えた。誘導期間と瞬間的なエネルギーの放出が明確に区別され、熱によるものと反応物質の消費によるものとが特定された。

COMMENT

この情報はHN_3の分析方法の検討に有用かも知れない。

SOURCE

Spectrophotometric determination of hydrazoic acid in solutions in the presence of easily hydrolyzable ions

Karpyuk, A. D. / Betekhtin, S. F. / Kolyada, N. S. / Fuki, O. V.

Zavod. Lab., 57, 5, pp11-12(1991)

KEYWORD

hydrazoic acid detn spectrophotometry; iron nitrate reagent hydrazoic acid detn

ABSTRACT

（入手不可）

COMMENT

SOURCE

Ionization in the decomposition of hydrazoic acid in shock waves

Aravin, G. S. / Karasevich, Yu. K. / Vlasov, P. A.

Khim. Fiz., 10, pp1360-7(1982)

KEYWORD

ionization mechanism hydrazoic acid dissocn; shock wave decompn hydrazoic acid

ABSTRACT

(入手不可)

COMMENT

SOURCE

Shock-Wave Initiation of Liquid Hydrazoic Acid

Yakovleva, G. S. / Kurbangalina, R. KH.

Detonatsiya, Mater. Vses. Simp. Goreniyu Vzryvu, 6th, pp56-60(1980)

KEYWORD

Shock Detonation Hydrazoic Acid

ABSTRACT

(入手不可)

COMMENT

SOURCE

Study of hydrazoic acid detonation near limits

Bazhenova, T. V. / Gvozdeva, L. G. / Fokeev, V. P. / Paillard, C. / Combourieu, J. / Dupre, G. / Lisbet, R.

Fiz. Goreniya Vzryva, 21, 1, pp120-4(1985)

KEYWORD

hydrozoic acid detonation factor affecting

ABSTRACT

(入手不可)

COMMENT

APPENDIX

以下に、Chemical Abstractにより検索したアジ化水素に関する文献一覧をを示す。レコード群の先頭にある番号（例えばCAS???）はChemical Abstractの巻数を示し、その内容は次のとおりである。

Table　検索に使用したChemical Abstract

番号	Vol.	総レコード数数	発行年月
CAS 119	119	195250	1993.07-12
CAS 118	118	265789	1993.01-06
CAS 117	117	264007	1992.07-12
CAS 116	116	268378	1992.01-06
CAS 115	115	294123	1991.07-12
CAS 114	114	258886	1991.01-06
CAS 113	113	243974	1990.07-12
CAS 112	112	245481	1990.01-06
CAS 111	111	247276	1989.07-12
CAS 110	110	241880	1989.01-06
CAS 109	109	233325	1988.07-12
CAS 108	108	231212	1988.01-06
CAS 107	107	249282	1987.07-12
CAS 106	106	226874	1987.01-06
CAS 105	105	237770	1986.07-12
CAS 104	104	236636	1986.01-06
CAS 103	103	227749	1985.07-12
CAS 102	102	221166	1985.01-06
CAS 101	101	239642	1984.07-12
CAS 100	100	220921	1984.01-06
CAS 99	99	224463	1983.07-12
CAS 98	98	227278	1983.01-06
CAS 97	97	228520	1982.07-12
CAS 96	96	228248	1982.01-06
CAS 95	95	231468	1981.07-12

CAS 119

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(1)
CA: 119/03/020681B SC: CA102003 SX: 132 DT: J
TI: Synthesis of novel 6-aza-.beta.- and 11-aza-C-homoestranes as antifertility agents
AU: Dwivedy, Indra / Singh, Ashvani K. / Singh, Man Mohan / Ray, Suprabhat
LW: Cent. Drug Res. Inst. DV: Med. Chem. Endocrinol. Div. CI: Lucknow NA: India
JN: Steroids VO: 58 IS: 2 PP: 69-73 PY: 93 CO: STEDAM LA: Eng
KW: azahomoestrane antifertility agent prepn; contraceptive azahomoestrane prepn

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(2)
CA: 119/04/034705Z SC: CA165006 SX: 122 DT: J
TI: Concerning the proton affinity of hydrazoic acid and methyl nitrate
AU: Cacace, Fulvio / Attina, Marina / Speranza, Maurizio / de Petris, Giulia / Grandinetti, Felice
LW: Univ. "La Sapienza" Roma DV: Dip. Stud. Chim. Tecnol. Sostanze Biologicamente Attive CI: Rome PC: 00185 NA: Italy
JN: J. Org. Chem. VO: 58 IS: 14 PP: 3639-42 PY: 93 CO: JOCEAH LA: Eng
KW: proton affinity hydrazoic acid methyl nitrate

CAS 118

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(1)
CA: 118/02/012048Q SC: CA166003 SX: 176 178 DT: J
TI: Spectroscopy and reactions of hydrazoic acid on silicon single crystal surfaces. II. HN3 and DN3 on Si(100)
AU: Chu, Jason C. S. / Bu, Yue / Lin, M. C.
LW: Emory Univ. DV: Dep. Chem. CI: Atlanta ST: GA PC: 30322 NA: USA
JN: Int. SAMPE Electron. Conf. VO: 6 IS: Crit. Mater. Processes Changing World PP: 31-41 PY: 92 CO: ISECE8 LA: Eng
KW: adsorption hydrazoic acid silicon; nitridation hydrazoic acid silicon surface; decompn hydrazoic acid silicon surface; desorption hydrazoic acid silicon surface

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(2)
CA: 118/02/014168C SC: CA175001 SX: 166 DT: J
TI: New precursor for growing nitride films
AU: Flowers, Michael C. / Jonathan, Neville B. H. / Laurie, Angus B. / Morris, Alan / Parker, Gregory J.
LW: Southampton Univ. DV: Dep. Chem. CI: Southampton PC: SO9 5NH NA: UK
JN: J. Mater. Chem. VO: 2 IS: 3 PP: 365-6 PY: 92 CO: JMACEP LA: Eng KW: hydrazoic acid methylgallium gallium nitride CVD

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(3)
CA: 118/07/059621M SC: CA128006 DT: J
TI: Heterocyclic synthesis with azides. I. The reaction of hydrazoic acid with ethoxymethylenemalonate
AU: Donkor, Augustine / Prager, Rolf H. / Thompson, Malcolm J.
LW: Flinders Univ. DV: Sch. Phys. Sci. CI: Adelaide PC: 5001
NA: Australia
JN: Aust. J. Chem. VO: 45 IS: 10 PP: 1571-6 PY: 92 CO: AJCHAS
LA: Eng
KW: hydrazoic acid cyclocondensation ethoxymethylenemalonate; azide cyclocondensation ethoxymethylenemalonate

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(4)
CA: 118/08/069796M SC: CA174001 DT: T
TI: Collaborative experimental and theoretical study of the photodissociation and reactions of the azide radical
AU: Dagdigian, P. J. / Alexander, M. H.
LW: Johns Hopkins Univ. CI: Baltimore ST: MD NA: USA
JN: Report IS: AFOSR-TR-91-0789; Order No. AD-A241561, PP: 22 pp.
PY: 91 CO: D8REP4 LA: Eng
KW: photodissocn azide radical; hydrazoic acid photolysis azide radical photochem

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(5)
CA: 118/11/101885C SC: CA128010 DT: J
TI: 5-(Substituted methyl)-1-methoxytetrazoles
AU: Luk'yanov, O. A. / Shlykova, M. I.
LW: N. D. Zelinskii Inst. Org. Chem. CI: Moscow PC: 117913 NA: Russia
JN: Izv. Akad. Nauk, Ser. Khim. IS: 7 PP: 1619-21 PY: 92 CO: IASKEA
LA: Russ
KW: methoxymethyltetrazole; hydrazoic acid hydroxymethylnitrolic acid reaction; tetrazole methyl methoxy

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(6)
CA: 118/15/147419G SC: CA127010 SX: 175 DT: J
TI: Heterocyclic synthesis with azides. II. The reaction of azide with ethoxymethylenemalonate
AU: Donkor, Augustine / Prager, Rolf H. / Taylor, Max R. / Thompson, Malcolm J.
LW: Flinders Univ. South Australia DV: Sch. Phys. Sci. CI: Adelaide
PC: 5001 NA: Australia
JN: Aust. J. Chem. VO: 45 IS: 11 PP: 1781-9 PY: 92 CO: AJCHAS
LA: Eng
KW: ethoxymethylenemalonate cyclization azide; hydroxypyrroledicarboxylate prepn crystal structure; pyrroledicarboxylate hydroxy

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(7)
CA: 118/15/147512G SC: CA128010 SX: 101 DT: J
TI: A Schmidt reaction of indanones and tetralones with hydrazoic acid-boron trifluoride (HN3-BF3) (etherate)
AU: Sudan, Sangeeta / Gupta, Rajive / Kachroo, P. L. / Gupta, D. K. / Bhutani, K. K.
LW: Univ. Jammu DV: Dep. Chem. CI: Jammu NA: India
JN: Indian J. Chem., Sect. B VO: 31B IS: 9 PP: 610-12 PY: 92
CO: IJSBDB LA: Eng
KW: Schmidt reaction tetralone indanone hydrazoic acid; tetrazolobenzazepine; tetrazoloquinoline; benzazepine tetrazolo; quinoline tetrazolo

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(8)
CA: 118/18/176539B SC: CA166003 SX: 167 176 DT: T
TI: Temperature dependence of the UPS and HREELS of hydrazoic acid (HN3 and DN3) on silicon (110)
AU: Bu, Y. / Chu, J. C. / Lin, M. C.
LW: Emory Univ. DV: Dep. Chem. CI: Atlanta ST: GA NA: USA
JN: Report IS: TR-5; Order No. AD-A240793, PP: 18 pp. PY: 91
CO: D8REP4 LA: Eng
KW: temp effect adsorption hydrazoic acid silicon; electron spectroscopy surface nitridation silicon; Group IIIA nitride prepn surface nitridation

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(9)
CA: 118/20/192367Z SC: CA135003 DT: J
TI: Synthesis of polymers containing pseudohalide groups by cationic polymerization. 5. Study of various aspects of the 2-methylpropene polymerization coinitiated by hydrazoic acid
AU: Habimana, Jean de la Croix / Cheradame, Herve / Rousset, Eliane / Chen, Frank J.
LW: INPG DV: Ec. Francaise Papeterie CI: Saint-Martin d'Heres NA: Fr.
JN: Macromolecules VO: 26 IS: 9 PP: 2297-302 PY: 93 CO: MAMOBX
LA: Eng
KW: methylpropene polymn catalyst hydrazoic acid

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(10)
CA: 118/20/204070N SC: CA178008 SX: 173 175 DT: J
TI: On the reaction of protonated hydrazoic acid with sulfur dichloride and the crystal structure of N(SCl)2+SbCl6-
AU: Minkwitz, Rolf / Budde, Uwe / Baeck, Birgit / Preut, Hans
LW: Univ. Dortmund DV: Fachbereich Chem. Anorg. Chem. CI: Dortmund
PC: D-W-4600 NA: Germany
JN: Z. Naturforsch., B: Chem. Sci. VO: 48 IS: 2 PP: 243-6 PY: 93
CO: ZNBSEN LA: Ger
KW: crystal structure thiohypochloritonitrogen chloroantimonate; nitrogen thiohypochlorito chloroantimonate; IR thiohypochloritonitrogen chloroantimonate; Raman thiohypochloritonitrogen chloroantimonate

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(11)
CA: 118/24/241501Z SC: CA166003 SX: 167 173 175 DT: J
TI: Spectroscopy and reactions of hydrazoic acid on silicon single crystal surfaces III. Hydrazoic acid (HN3 and DN3) on silicon (111)(7.times.7)
AU: Chu, Jason C. S. / Bu, Y. / Lin, M. C.
LW: Dep. Chem., Emory Univ. CI: Atlanta ST: GA PC: 30322 NA: USA
JN: Surf. Sci. VO: 284 IS: 3 PP: 281-90 PY: 93 CO: SUSCAS
LA: Eng
KW: hydrazoic acid adsorption reaction silicon surface; nitridation surface silicon hydrazoic acid; electron spectroscopy hydrazoic acid silicon surface

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(12)
CA: 118/24/244306A SC: CA174001 SX: 173 DT: J
TI: Dispersed emission spectrum of amidogen (^A2A1) in the ultraviolet laser photolysis of hydrazoic acid and the mechanism of formation
AU: Yamasaki, Katsuyoshi / Watanabe, Akihiro / Tokue, Ikuo / Ito, Yoshio
LW: Dep. Chem., Niigata Univ., 2-nocho, Ikarashi CI: Niigata PC: 950-21
NA: Japan
JN: Chem. Phys. Lett. VO: 204 IS: 1-2 PP: 106-10 PY: 93
CO: CHPLBC LA: Eng
KW: emission amidogen laser photolysis hydrazoic acid; chemiluminescence vibronic amidogen hydrazoic acid photolysis

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(13)
CA: 118/24/244339P SC: CA174001 DT: J
TI: Imidogen (NH/ND) (a1.DELTA.,v") vibrational distributions in the UV photolyses of hydrazoic acid (HN3/DN3) and isocyanic acid (HNCO/DNCO)
AU: Bohn, B. / Stuhl, E.
LW: Ruhr-Univ. Bochum CI: Bochum PC: D-4630 NA: Germany
JN: J. Phys. Chem. VO: 97 IS: 19 PP: 4891-8 PY: 93 CO: JPCHAX
LA: Eng
KW: imidogen vibrational energy distribution UV photolysis; UV photolysis hydrazoic acid imidogen radical; isocyanic acid UV photolysis imidogen radical; laser induced fluorescence imidogen radical photoproduct

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(14)
CA: 118/24/244356S SC: CA174001 SX: 173 DT: J
TI: Quantitative spectroscopy of the imidogen transitions c(1.PI.,.nu..ltoreq.1)-a(1.DELTA.,.nu..ltoreq.4) and c(1.PI.,.nu..ltoreq.1)-b(1.sum.+,.nu..ltoreq.2) with hydrazoic acid laser photolysis as the imidogen(a) source
AU: Hack, W. / Mill, T.
LW: Max-Planck-Inst. Stroemungsforsch. CI: Goettingen PC: 3400
NA: Germany
JN: J. Phys. Chem. VO: 97 IS: 21 PP: 5599-606 PY: 93 CO: JPCHAX
LA: Eng
KW: imidogen photoproduct transition hydrazoic acid photolysis; spectroscopy imidogen vibronic transition; vibrational excitation first electronic excitation imidogen

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(15)
CA: 118/26/261662F SC: CA167003 DT: J
TI: Stoichiometry and kinetics of the oxidation of hydrazoic acid with N-chlorotoluene-p-sulfonamide (chloramin T) in acid perchlorate medium
AU: Hussain, Juzar / Parasher, Pradeep / Devra, Vijay / Sharma, Prem D.
LW: Univ. Rajasthan DV: Dep. Chem. CI: Jaipur PC: 302004 NA: India
JN: J. Chem. Res., Synop. IS: 4 PP: 140 PY: 93 CO: JRPSDC LA: Eng
KW: hydrazoic acid oxidn chlorotoluenesulfonamide mechanism; chloramin T oxidn hydrazoic acid mechanism

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CAS 117

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(1)
CA: 117/03/026912H SC: CA132007 DT: J
TI: Synthesis and some reactions of 7-(N,N-dimethylaminomethyl)-5.alpha.-cholestane-3.beta.-diol-6-one
AU: Hamama, W. S. / Dawidar, A. M. / Metwally, M. A. / Ahmed, A. F. Sayed / Sherief, A. A.
LW: Mansoura Univ. DV: Fac. Sci. CI: Mansoura NA: Egypt
JN: Pharmazie VO: 47 IS: 3 PP: 184-6 PY: 92 CO: PHARAT LA: Eng
KW: Mannich cholestanediolone; dimethylaminomethylcholestanediolone prepn reaction; bactericide dimethylaminomethylcholestanediolone deriv; fungicide dimethylaminomethylcholestanediolone deriv

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(2)
CA: 117/04/036287X SC: CA174000 DT: J
TI: Molecular reaction dynamics of aligned molecules
AU: Comes, Franz Josef
LW: Univ. Frankfurt DV: Inst. Phys. Theor. Chem. CI: Frankfurt/Main PC: W-6000/50 NA: UK
JN: Angew. Chem. VO: 104 IS: 5 PP: 529-41 (See also Angew. Chem., Int. Ed. Engl., 1992, 31(5), 516-27) PY: 92 CO: ANCEAD LA: Ger
KW: review photofragmentation hydrogen peroxide hydrazoic acid

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(3)
CA: 117/05/049103J SC: CA133007 DT: J
TI: Synthesis of polydeoxygenated and iodinated disaccharides
AU: Abbaci, Belgacem / Florent, Jean Claude / Monneret, Claude
LW: Inst. Curie DV: Sect. Biol. CI: Paris PC: F-75231 NA: Fr.
JN: Carbohydr. Res. VO: 228 IS: 1 PP: 171-90 PY: 92 CO: CRBRAT LA: Fr
KW: oligosaccharide amino; glycal condensation hexenopyranoside

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(4)
CA: 117/07/070195A SC: CA133009 DT: J
TI: Synthesis of 3'-(5-amino-1,2,3,4-tetrazol-1-yl)-3'-deoxythymidines
AU: Haebich, Dieter
LW: Bayer AG DV: Chem. Wiss. Labor-Pharma CI: Wuppertal PC: D-5600/1 NA: Germany
JN: Synthesis IS: 4 PP: 358-60 PY: 92 CO: SYNTBF LA: Eng
KW: aminotetrazolyldeoxythymidine prepn virucide; tetrazolyldeoxythymidine amino prepn virucide; thymidine aminotetrazolyldeoxy prepn virucide; AZT conversion aminotetrazolyldeoxythymidine; dipolar cycloaddn hydrazoic acid carbodiimide

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(5)
CA: 117/08/079731E SC: CA174001 DT: T
TI: Kinetics and dynamics of the elementary processes of the imidogen and deuteroimidogen (a1.DELTA.)-radicals
AU: Rathmann, Kerstin
NA: Germany
JN: Ber. - Max-Planck-Inst. Stroemungsforsch. IS: 1, PP: 122 pp. PY: 92 CO: MPSBBR LA: Ger
KW: excited imidogen kinetics dynamics reaction; photolysis hydrazoic acid imidogen quenching reaction

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(6)
CA: 117/08/080385B SC: CA175001 SX: 173 176 DT: J
TI: Low-temperature chemical vapor deposition of boron nitride films using hydrogen azide
AU: Ishihara, Ryoichi / Sugiura, Osamu / Matsumura, Masakiyo
LW: Tokyo Inst. Technol. DV: Dep. Phys. Electron. CI: Tokyo PC: 152 NA: Japan
JN: Appl. Phys. Lett. VO: 60 IS: 26 PP: 3244-6 PY: 92 CO: APPLAB LA: Eng
KW: boron nitride film deposition hydrazoic acid; elec property boron nitride film

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(7)
CA: 117/11/111058D SC: CA122012 SX: 165 DT: J
TI: Methyl nitrate, hydrazoic acid, and their conjugate acids. A configuration interaction study of the gas-phase proton transfer equilibrium and of acid-catalyzed fragmentation reactions
AU: Glaser, Rainer / Choy, Godwin Sik Cheung
LW: Univ. Missouri DV: Dep. Chem. CI: Columbia ST: MO PC: 65211 NA: USA
JN: J. Org. Chem. VO: 57 IS: 18 PP: 4976-86 PY: 92 CO: JOCEAH LA: Eng
KW: proton transfer methyl nitrate hydrazoic acid; quantum chem proton transfer nitrate; MO proton transfer nitrate; energy surface proton transfer; aminodiazonium formation dediazotization

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(8)
CA: 117/11/111195W SC: CA125009 DT: J
TI: Novel generation of phenylsulfenium ion and aromatic phenylthiolation. Reactions of hydrazoic acid, alkyl azides and hydroxylamine derivatives with alkyl phenyl sulfides in the presence of both trifluoromethanesulfonic acid and trifluoroacetic acid
AU: Takeuchi, Hiroshi / Yanase, Takehiro / Itou, Katsutaka / Oya, Hiromi / Adachi, Taki
LW: Shinshu Univ. DV: Fac. Eng. CI: Nagano PC: 380 NA: Japan
JN: J. Chem. Soc., Chem. Commun. IS: 12 PP: 916-17 PY: 92 CO: JCCCAT LA: Eng
KW: sulfide alkylthiophenyl phenyl; phenylsulfenium reaction azide hydroxylamine deriv

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(9)
CA: 117/12/120214D SC: CA171005 DT: J
TI: The behavior of decomposition products of hydrazine in PUREX process
AU: Zil'berman, B. Ya. / Lelyuk, G. A. / Mashkin, A. N. / Fedorov, Yu. S.
LW: V.G. Khlopin Radium Inst. CI: Leningrad PC: 197022 NA: USSR
JN: Process Metall. VO: 7A IS: Solvent Extr. 1990, Pt. A PP: 759-64
PY: 92 CO: PMETEQ LA: Eng
KW: fuel reprocessing PUREX hydrazine decompn product; reactor fuel reprocessing hydrazine decompn product; hydrazoic acid redox interaction PUREX; extn PUREX hydrazine decompn product; catalytic oxidn hydrazine PUREX reprocessing

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(10)
CA: 117/16/158237B SC: CA166003 SX: 167 173 DT: J
TI: UHV studies of the adsorption of hydrazoic acid on silicon(100)
AU: Jonathan, N. B. H. / Knight, P. J. / Morris, A.
LW: Univ. Southampton DV: Dep. Chem. CI: Southampton PC: SO9 5NH
NA: UK
JN: Surf. Sci. VO: 275 IS: 1-2 PP: L640-L644 PY: 92 CO: SUSCAS
LA: Eng
KW: nitridation silicon surface hydrazoic acid adsorption; Auger spectra adsorption hydrazoic acid silicon

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(11)
CA: 117/23/233446Z SC: CA124000 DT: J
TI: Surface-mediated reactions. 2. Addition of hydrazoic acid to alkenes
AU: Breton, Gary W. / Daus, Kimberlee A. / Kropp, Paul J.
LW: Univ. North Carolina DV: Dep. Chem. CI: Chapel Hill ST: NC
PC: 27599-3290 NA: USA
JN: J. Org. Chem. VO: 57 IS: 24 PP: 6646-9 PY: 92 CO: JOCEAH
LA: Eng
KW: addn hydrazoic acid alkene surface mediated; cycloalkene addn hydrazoic acid surface mediated; silica gel hydrazoic acid formation; alumina hydrazoic acid formation; azide cycloalkyl

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CAS116

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(1)
CA: 116/04/028737H SC: CA167003 SX: 178 DT: J
TI: Kinetics of reaction of aquacobalamin with azide ion and hydrazoic acid: pH profile and activation parameters
AU: Marques, Helder M. / Breet, Ernst L. J. / Prinsloo, Frans F.
LW: Univ. Witwatersrand DV: Cent. Mol. Des. CI: Johannesburg PC: 2050
NA: S. Afr.
JN: J. Chem. Soc., Dalton Trans. IS: 11 PP: 2941-4 PY: 91
CO: JCDTBI LA: Eng
KW: aquacobalamin reaction azide hydrazoic acid kinetics; cobalamic reaction azide hydrazoic acid kinetics

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(2)
CA: 116/05/042022C SC: CA134003 SX: 102 DT: J
TI: Conformational mimicry. 3. Synthesis and incorporation of 1,5-disubstituted tetrazole dipeptide analogs into peptides with preservation of chiral integrity: bradykinin
AU: Zabrocki, Janusz / Dunbar, James B., Jr. / Marshall, Keith W. / Toth, Mihaly V. / Marshall, Garland R.
LW: Tech. Univ. DV: Inst. Org. Chem. CI: Lodz NA: Pol.
JN: J. Org. Chem. VO: 57 IS: 1 PP: 202-9 PY: 92 CO: JOCEAH
LA: Eng
KW: bradykinin tetrazole dipeptide isostere; pseudodipeptide tetrazole bradykinin; racemization dipeptide imidoyl chloride

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(3)
CA: 116/06/048656J SC: CA174001 DT: J
TI: Collision-induced intersystem crossing of imidogen(a1.DELTA., v" = 0, 1) by nitrogen and xenon: temperature dependence (nitrogen) and product states (nitrogen, xenon)
AU: Hack, W. / Rathmann, K.
LW: Max-Planck-Inst. Stroemungsforsch. CI: Goettingen PC: D-3400
NA: Germany
JN: J. Phys. Chem. VO: 96 IS: 1 PP: 47-52 PY: 92 CO: JPCHAX
LA: Eng
KW: nitrogen xenon quenching vibrational excitation imidogen; kinetics quenching metastable vibrational excitation imidogen; photolysis hydrazoic acid imidogen quenching; intersystem crossing imidogen quenching

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(4)
CA: 116/06/050432B SC: CA179006 DT: J
TI: Spectrophotometric determination of hydrazoic acid in solutions in the presence of easily hydrolyzable ions
AU: Karpyuk, A. D. / Betekhtin, S. F. / Kolyada, N. S. / Fuki, O. V.
NA: USSR
JN: Zavod. Lab. VO: 57 IS: 5 PP: 11-12 PY: 91 CO: ZVDLAU
LA: Russ
KW: hydrazoic acid detn spectrophotometry; iron nitrate reagent hydrazoic acid detn

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(5)
CA: 116/07/058847M SC: CA125004 DT: J
TI: Efficient direct aromatic amination by hydrazoic acid in the presence of both trifluoromethanesulfonic acid and trifluoroacetic acid
AU: Takeuchi, Hiroshi / Adachi, Taki / Nishiguchi, Hideaki
LW: Shinshu Univ. DV: Fac. Eng. CI: Nagano PC: 380 NA: Japan
JN: J. Chem. Soc., Chem. Commun. IS: 21 PP: 1524-5 PY: 91
CO: JCCCAT LA: Eng
KW: amination arom compd hydrazoic acid; benzene amination hydrazoic acid; anisole amination hydrazoic acid; isodurene amination hydrazoic acid; aminobenzene methyl bromo methoxy

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(6)
CA: 116/08/071968W SC: CA174001 DT: J
TI: Photodissociation of hydrogen azide (HN3): direct formation of hydrogen atoms
AU: Gericke, Karl Heinz / Lock, Michael / Comes, Franz Josef
LW: Univ. Frankfurt DV: Inst. Phys. Theor. Chem. CI: Frankfurt/Main
PC: W-6000/50 NA: Germany
JN: Chem. Phys. Lett. VO: 186 IS: 4-5 PP: 427-30 PY: 91
CO: CHPLBC LA: Eng
KW: photodissocn hydrazoic acid hydrogen atom photoproduct; UV photolysis hydrogen azide dissocn product; laser induced fluorescence hydrogen atom photofragment

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(7)
CA: 116/09/078686M SC: CA106001 DT: J
TI: Rates of spontaneous exchange of synthetic radiolabeled sterols between lipid vesicles
AU: Kan, Chu Cheng / Yan, Jiasheng / Bittman, Robert
LW: City Univ. New York DV: Queens Coll. CI: Flushing ST: NY
PC: 11367 NA: USA
JN: Biochemistry VO: 31 IS: 6 PP: 1866-74 PY: 92 CO: BICHAW
LA: Eng
KW: sterol exchange lipid membrane vesicle

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(8)
CA: 116/10/091743X SC: CA165003 SX: 173 174 DT: J
TI: Vector correlations in molecular photofragmentations
AU: Comes, F. J.
LW: Univ. Frankfurt DV: Inst. Phys. Theor. Chem. CI: Frankfurt/Main
NA: Germany
JN: Laser Chem. VO: 11 IS: 3-4 PP: 151-6 PY: 91 CO: LSCHDB
LA: Eng
KW: vector correlation mol photofragmentation; dissocn mol photofragmentation vector correlation

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(9)
CA: 116/10/092348J SC: CA167003 SX: 173 DT: J
TI: Study of the calcium and strontium + hydrazoic acid reactions: indirect evidence for the formation of the metal imides
AU: Chen, Jing / Dagdigian, Paul J.
LW: Johns Hopkins Univ. DV: Dep. Chem. CI: Baltimore ST: MD
PC: 21218 NA: USA
JN: J. Phys. Chem. VO: 96 IS: 3 PP: 1284-8 PY: 92 CO: JPCHAX
LA: Eng
KW: hydrazoic acid reaction calcium strontium mechanism; kinetics hydrazoic acid reaction calcium strontium

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(10)
CA: 116/12/116851W SC: CA174001 DT: J
TI: Influence of the electronic asymmetry in the imidogen (NH (1.DELTA.)) state .LAMBDA. doublets on the photodissociation dynamics of hydrazoic acid and hydrazoic acid-d (HN3 and DN3)
AU: Gericke, Karl Heinz / Lock, Michael / Fasold, Renate / Comes, Franz Josef
LW: Univ. Frankfurt/Main DV: Inst. Phys. Theor. Chem.
CI: Frankfurt/Main PC: D-6000/50 NA: Germany
JN: J. Chem. Phys. VO: 96 IS: 1 PP: 422-32 PY: 92 CO: JCPSA6
LA: Eng
KW: photodissocn hydrazoic acid imidogen electronic asymmetry

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(11)
CA: 116/13/128255T SC: CA125004 DT: J
TI: A general enantioselective synthesis of .alpha.-arylethylamines
AU: Chen, Chung Pin / Prasad, Kapa / Repic, Oljan
LW: Sandoz Res. Inst. CI: East Hanover ST: NJ PC: 07936 NA: USA
JN: Tetrahedron Lett. VO: 32 IS: 49 PP: 7175-8 PY: 91 CO: TELEAY
LA: Eng
KW: amine arylethyl enantioselective prepn; acetophenone redn enantioselective; Mitsunobu reaction arylethyl alc; safety explosive toxicity hydrazoic acid

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(12)
CA: 116/14/138945G SC: CA173003 DT: J
TI: High-resolution infrared absorption spectra of the .nu.3 and .nu.4 hybrid bands of hydrazoic acid (HN3)
AU: Bendtsen, Joergen / Nicolaisen, Flemming M.
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 152 IS: 1 PP: 101-8 PY: 92 CO: JMOSA3
LA: Eng
KW: IR spectra hydrazoic acid; hydrazoic acid IR spectra vibration rotation; mol vibration rotation hydrazoic acid

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(13)
CA: 116/15/151374Q SC: CA126005 SX: 101 110 DT: J
TI: Synthesis and antibacterial activity of some novel 6-methyl- and 6-propenyl-substituted carbapenems
AU: Mastalerz, Harold / Menard, Marcel / Ruediger, Edward / Fung-Tomc, Joan
LW: Bristol-Myers Squibb Pharm. Res. Inst. CI: Candiac ST: PQ PC: J5R
1J1 NA: Can.
JN: J. Med. Chem. VO: 35 IS: 5 PP: 953-8 PY: 92 CO: JMCMAR
LA: Eng
KW: hydroxymethylcarbapenem prepn bactericide; aminomethylcarbapenem prepn bactericide; hydroxypropenylcarbapenem prepn bactericide; aminopropenylcarbapenem prepn bactericide; carbapenem methyl propenyl bactericide; methylcarbapenem prepn bactericide

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(14)
CA: 116/15/152269W SC: CA133009 DT: J
TI: Synthesis of 2',3'-dideoxy-D-erythro-hexofuranosyl nucleosides and 3'-azido-2',3'-dideoxy-D-arabino-hexofuranosyl nucleosides from tri-O-acetyl-D-glucal via an .alpha.,.beta.-unsaturated hexose aldehyde
AU: Lau, Jesper / Wengel, Jesper / Pedersen, Erik B. / Vestergaard, Bent Faber
LW: Odense Univ. DV: Dep. Chem. CI: Odense PC: DK-5230 NA: Den.
JN: Synthesis IS: 12 PP: 1183-90 PY: 91 CO: SYNTBF LA: Eng
KW: deoxyfuranosyl nucleoside; nucleoside dideoxyhexofuranosyl; azidodideoxyfuranosyl nucleoside; acetylglucal conversion dideoxyhexofuranosyl nucleoside; unsatd hexose aldehyde intermediate dideoxyfuranosyl nucleoside

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(15)
CA: 116/15/152313F SC: CA134002 SX: 127 128 DT: J
TI: Asymmetric synthesis of .alpha.-alkylated .alpha.-amino acids: azocane-2-carboxylic acids
AU: Georg, Gunda I. / Guan, Xiangming
LW: Univ. Kansas DV: Dep. Med. Chem. CI: Lawrence ST: KS PC: 66045-2506 NA: USA
JN: Tetrahedron Lett. VO: 33 IS: 1 PP: 17-20 PY: 92 CO: TELEAY LA: Eng
KW: alkylated azocanecarboxylic acid asym synthesis; diastereoselective alkylation cycloheptene enamine; cycloheptanone cyclization hydrazoic acid; tetrazoloazocane prepn ring cleavage

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(16)
CA: 116/16/162304T SC: CA174001 SX: 165 DT: J
TI: Potential-energy surface control of the imidogen product state distribution in the decomposition reaction: hydrazoic acid (^X1A') .fwdarw. imidogen (a1.DELTA.) + nitrogen (X1.SIGMA.g+)
AU: Alexander, Millard H. / Dagdigian, Paul J. / Werner, Hans Joachim
LW: Univ. Maryland DV: Dep. Chem. CI: College Park ST: MD PC: 20742 NA: USA
JN: Faraday Discuss. Chem. Soc. VO: 91 IS: Struct. Dyn. React. Transition States PP: 319-35 PY: 91 CO: FDCSB7 LA: Eng
KW: hydrazoic acid IR photolysis imidogen excitation; rotational electronic state distribution imidogen; potential energy surface control imidogen photoproduct

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(17)
CA: 116/17/173457W SC: CA122012 DT: J
TI: Relative homolytic strengths of nitrogen-hydrogen bonds in cyclic and acyclic diacylhydrazides, imides and hydrazoic acid
AU: Bausch, M. J. / David, B. / Prasad, V. / Wang, L. H. / Vaughn, A.
LW: South. Illinois Univ. DV: Dep. Chem. Biochem. CI: Carbondale ST: IL PC: 62901-4409 NA: USA
JN: J. Phys. Org. Chem. VO: 5 IS: 1 PP: 1-6 PY: 92 CO: JPOCEE LA: Eng
KW: bond energy nitrogen hydrogen; hydrazide diacyl bond energy; imide bond energy; hydrazoic acid bond energy; oxidn potential imide

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(18)
CA: 116/18/177260Z SC: CA150001 DT: P
TI: Enhanced thermal and ignition stability azide gas-generators, and process and apparatus for their manufacture
AU: Taylor, Robert D. / Smith, Gary L. / Olsen, Ritchie
NA: USA
JN: Eur. Pat. Appl. PP: 14 pp. PY: 920219 CO: EPXXDW LA: Eng
PAS: Morton International, Inc.
KW: gas generator azide pellet; molybdenum disulfide oxidizer gas generator; metal ion removal gas generator; sodium hydroxide metal ion removal; hydrazoic acid control gas generator

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(19)
CA: 116/18/181972A SC: CA166003 SX: 167 173 176 DT: J
TI: Temperature dependence of the UPS and HREELS of hydrazoic acid and hydrazoic acid-d on silicon(110)
AU: Bu, Yue / Chu, Jason C. S. / Lin, M. C.
LW: Emory Univ. DV: Dep. Chem. CI: Atlanta ST: GA PC: 30322 NA: USA
JN: Surf. Sci. VO: 264 IS: 1-2 PP: L151-L156 PY: 92 CO: SUSCAS LA: Eng
KW: electron spectroscopy silicon surface nitridation; hydrazoic acid adsorbed silicon EELS UPS

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(20)
CA: 116/19/193635F SC: CA122013 SX: 175 DT: J
TI: New synthesis, crystal structure, and vibrational spectra of tetramethylammonium azide and reactions of the fluoride anion with hydrazoic acid and of the azide anion with hydrogen fluoride
AU: Christe, Karl O. / Wilson, William W. / Bau, Robert / Bunte, Steven W.
LW: Rockwell Int. Corp. DV: Rocketdyne Div. CI: Canoga Park ST: CA PC: 91303 NA: USA
JN: J. Am. Chem. Soc. VO: 114 IS: 9 PP: 3411-14 PY: 92 CO: JACSAT LA: Eng
KW: crystallog methylammonium azide; vibrational spectra tetramethylammonium azide; fluoride anion hydrazoic acid; anion azide hydrofluoric acid

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CAS 115

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(1)
CA: 115/06/060545J SC: CA174001 DT: J
TI: Quenching of imidogen(a1.DELTA.,v" = 1,2) after hydrazoic acid-krypton fluoride laser photolysis
AU: Hack, W. / Mill, T.
LW: MPI Stroemungsforsch. CI: Goettingen PC: D-3400 NA: Fed. Rep. Ger.
JN: J. Phys. Chem. VO: 95 IS: 12 PP: 4712-18 PY: 91 CO: JPCHAX LA: Eng
KW: hydrazoic acid photolysis excited imidogen quenching

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(2)
CA: 115/07/071995G SC: CA132003 DT: J
TI: Regio- and stereoselective azidation of 19-norsteroids
AU: Guy, A. / Doussot, J. / Lemaire, M.
LW: Conservatoire Natl. Arts Metiers DV: Lab. Chim. Org. CI: Paris
PC: F-75141 NA: Fr.
JN: Synthesis IS: 6 PP: 460-2 PY: 91 CO: SYNTBF LA: Eng
KW: azidoestratriene; estratriene azido; regioselective stereoselective azidation estratriene

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(3)
CA: 115/08/081904R SC: CA174001 DT: J
TI: Hydrazoic acid(^A1A") hypersurface at excitation energies of 4.0-5.0 eV
AU: Gericke, Karl Heinz / Haas, Tobias / Lock, Michael / Theinl, Robert /
Comes, Franz Josef
LW: Univ. Frankfurt DV: Inst. Phys. Theor. Chem. CI: Frankfurt/Main
PC: D-6000/50 NA: Fed. Rep. Ger.
JN: J. Phys. Chem. VO: 95 IS: 16 PP: 6104-11 PY: 91 CO: JPCHAX
LA: Eng
KW: hydrazoic acid photofragmentation dynamics hypersurface; photolysis hydrazoic acid potential energy surface

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(4)
CA: 115/08/081905S SC: CA174001 DT: J
TI: CASSCF and CEPA calculations for the photodissociation of hydroazoic acid. 2. Photodissociation into nitrogen and imidogen on the lowest 1A" surface of hydroazoic acid
AU: Meier, U. / Staemmler, V.
LW: Ruhr-Univ. CI: Bochum PC: D-4630 NA: Fed. Rep. Ger.
JN: J. Phys. Chem. VO: 95 IS: 16 PP: 6111-17 PY: 91 CO: JPCHAX
LA: Eng
KW: hydrazoic acid photolysis potential energy surface; photodissocn hydrazoic acid quantum chem calcn

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(5)
CA: 115/08/081951D SC: CA174001 DT: J
TI: Mechanism of the reaction of imidogen (1.DELTA.) with nitric oxide in argon matrix
AU: Yokoyama, Keiichi / Kitaike, Hiroshi / Fueno, Takayuki
LW: Osaka Univ. DV: Fac. Eng. Sci. CI: Osaka PC: 560 NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 64 IS: 6 PP: 1731-7 PY: 91
CO: BCSJA8 LA: Eng
KW: hydrazoic acid nitric oxide photolysis; nitrogen oxide hydrazoic acid photolysis; metastable imidogen nitric acid reaction

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(6)
CA: 115/09/092808P SC: CA133009 DT: J
TI: Selective deformylation of an .alpha.,.beta.-unsaturated sugar aldehyde in a very short synthesis of 3'-azido-3'-deoxythymidine (AZT) and its stereoisomers
AU: Wengel, Jesper / Pedersen, Erik B.
LW: Odense Univ. DV: Dep. Chem. CI: Odense PC: DK-5230 NA: Den.
JN: Synthesis IS: 6 PP: 451-4 PY: 91 CO: SYNTBF LA: Eng
KW: azidodeoxythymidine stereoisomer short synthesis; deoxythymidine azido stereoisomer short synthesis; thymidine azidodeoxy stereoisomer short synthesis; deformylation regioselective formyloxypentenal; formylation retro regioselective formyloxypentenal; pentenal formyl regioselective deformylation; hydroxypentenal Michael addn hydrazoic acid

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(7)
CA: 115/11/114538E SC: CA128016 SX: 101 DT: P
TI: Preparation of pyrido[1,2-a]pyrimidine derivatives
AU: Amano, Michiaki / Nakagawa, Yoshio
NA: Japan
JN: Jpn. Kokai Tokkyo Koho PP: 6 pp. PY: 910328 CO: JKXXAF LA: Japan
PAS: Tokyo Tanabe Co., Ltd.
KW: pyridopyrimidinone prepn allergy inhibitor; tetrazolylpyridopyrimidinone prepn allergy inhibitor; pyrimidylaminotetrazolylacrylate ring closure; pyridylaminocyanoacrylate reaction sodium azide

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(8)
CA: 115/12/121123U SC: CA167003 SX: 168 178 DT: J
TI: Kinetic and equilibrium study of substitution reactions of trans-tetracyanodioxorhenate(V) ions with monodentate nucleophiles
AU: Purcell, Walter / Roodt, Andreas / Leipoldt, Johann G.
LW: Univ. Orange Free State DV: Dep. Chem. CI: Bloemfontein NA: S.
Afr.
JN: Transition Met. Chem. (London) VO: 16 IS: 3 PP: 339-43 PY: 91
CO: TMCHDN LA: Eng
KW: rhenium oxo cyano substitution thiourea kinetics; hydrazoic acid substitution oxorhenate cyano kinetics; trans effect substitution oxorhenate cyano kinetics; equil substitution oxorhenate cyano kinetics

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(9)
CA: 115/13/136577U SC: CA133009 SX: 101 DT: J
TI: New strategies in the synthesis of 3'-azido-2',3'-dideoxy nucleosides with a furanose configuration
AU: Wengel, Jesper / Lau, Jesper / Walczak, Krzysztof / Pedersen, Erik B.
LW: Odense Univ. DV: Dep. Chem. CI: Odense PC: DK-5230 NA: Den.
JN: Nucleosides Nucleotides VO: 10 IS: 1-3 PP: 405-8 PY: 91
CO: NUNUD5 LA: Eng
KW: dideoxynucleoside azido symposium; azidodideoxynucleoside symposium; nucleoside azido dideoxy symposium; azide Michael addn unsatd aldehyde symposium; AIDS inhibitor AZT stereoisomer symposium; HIV inhibitor AZT stereoisomer symposium

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(10)
CA: 115/14/142818Q SC: CA165005 DT: J
TI: Deviations from idealized geometry, a comparison of structural data from experimental and ab initio studies. Part II. The pseudohalogen acids HNXY
AU: Palmer, Michael H.
LW: Univ. Edinburgh DV: Dep. Chem. CI: Edinburgh PC: EH9 3JJ NA: UK
JN: J. Mol. Struct. VO: 246 IS: 3-4 PP: 321-38 PY: 91 CO: JMOSB4
LA: Eng
KW: hydrazoic acid potential energy surface MP2; pseudohalogen acid potential energy surface MP2; cyanic acid potential energy surface MP2; thiocyanic acid potential energy surface MP2; selenocyanate

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(11)
CA: 115/17/182752V SC: CA125016 DT: J
TI: Reaction of N-4-tolyl-1,4-benzoquinone monoimine with hydrazoic acid
AU: Toropin, N. V. / Burmistrov, K. S.
LW: Dnepropetr. Khim.-Tekhnol. Inst. CI: Dnepropetrovsk NA: USSR
JN: Zh. Org. Khim. VO: 27 IS: 2 PP: 376-80 PY: 91 CO: ZORKAE
LA: Russ
KW: addn hydrazoic acid quinonimine; oxidn quinonimine hydrazoic acid adduct
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(12)
CA: 115/18/190823J SC: CA167003 SX: 122 DT: J
TI: Rate constants and branching ratios for the reaction of excited molecular nitrogen (N2(A3.SIGMA.u+)) with acetylene, 1-propyne, 1,2-propadiene, hydrazoic acid, and hydroxylamine
AU: Boehmer, E. / Hack, W.
LW: Max-Planck-Inst. Stroemungsforsch. CI: Goettingen PC: D-3400
NA: Fed. Rep. Ger.
JN: Z. Phys. Chem. (Munich) VO: 170 IS: 1-2 PP: 15-30 PY: 91
CO: ZPCFAX LA: Eng
KW: nitrogen excited reaction kinetics; acetylene reaction excited nitrogen kinetics; propyne reaction excited nitrogen kinetics; propadiene reaction excited nitrogen kinetics; hydrazoic acid reaction excited nitrogen kinetics; hydroxylamine reaction excited nitrogen kinetics
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(13)
CA: 115/20/218557B SC: CA174001 SX: 173 DT: T
TI: Spectroscopy, photophysics, and state-selective dynamics of electronically excited molecules of imidogen (a1.DELTA.) and (c1.PI.) in the gas phase
AU: Mill, Thomas
LW: Max-Planck-Inst. Stroemungsforsch. CI: Goettingen NA: Fed. Rep. Ger.
JN: Ber. - Max-Planck-Inst. Stroemungsforsch. IS: 14, PP: 104 pp.
PY: 90 CO: MPSBBR LA: Ger
KW: hydrazoic acid photodissocn imidogen excited dynamics
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(14)
CA: 115/25/279694R SC: CA126005 SX: 110 DT: P
TI: 4-substituted alkyl carbapenem antibiotics
AU: Martel, Alain / Bachand, Carol / Menard, Marcel
NA: USA
JN: Eur. Pat. Appl. PP: 308 pp. PY: 910626 CO: EPXXDW LA: Eng
PAS: Bristol-Myers Squibb Co.
KW: carbapenemcarboxylate alkylthio prepn bactericide; alkylthiocarbapenemcarboxylate prepn bactericide; azabicycloheptenecarboxylate alkylthiooxo prepn bactericide
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(15)
CA: 115/25/279926T SC: CA128010 DT: J
TI: Bond-switch rearrangement of 3-oxo-.DELTA.4-1,2,4-thiadiazolin-5-ylureas
AU: L'Abbe, Gerrit / Albrecht, Ernestine / Toppet, Suzanne
LW: Univ. Leuven DV: Dep. Chem. CI: Louvain PC: 3001 NA: Belg.
JN: J. Heterocycl. Chem. VO: 28 IS: 6 PP: 1619-23 PY: 91
CO: JHTCAD LA: Eng
KW: rearrangement thiazolidinonylurea bond switch; urea thiazolidinonyl rearrangement bond switch
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CAS 114

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(1)
CA: 114/03/023882A SC: CA128010 DT: J
TI: Triazolines. XX. Vinyl azides as dipolarophiles in 1,3-dipolar cycloadditions: intermolecular cycloaddition of hydrazoic acid and .alpha.-styryl azide to give a tetrazole
AU: Kadaba, Pankaja K.
LW: Univ. Kentucky DV: Coll. Pharm. CI: Lexington ST: KY
PC: 40536-0082 NA: USA
JN: Synlett IS: 6 PP: 349-51 PY: 90 CO: SYNLES LA: Eng
KW: tetrazole phenyl; styryl azide dipolar cycloaddn hydrazoic acid
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(2)
CA: 114/04/032141K SC: CA173003 DT: J
TI: High-resolution infrared spectrum of the .nu.4 band of deuterated hydrazoic acid (DN3)
AU: Bendtsen, J. / Nicolaisen, F. M.
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 145 IS: 1 PP: 123-9 PY: 91 CO: JMOSA3
LA: Eng
KW: IR deutero hydrazoic acid
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(3)
CA: 114/06/050551Y SC: CA168002 SX: 179 DT: J
TI: Behavior of palladium in the hydrazoic acid-tributyl phosphate-nitric acid system
AU: Zil'berman, B. Ya. / In'kova, E. N. / Lelyuk, G. A. / Mashkin, A. N.
NA: USSR
JN: Radiokhimiya VO: 32 IS: 4 PP: 45-9 PY: 90 CO: RADKAU
LA: Russ
KW: extn palladium TBP hydrazoic acid effect; nitric acid extn palladium TBP; butyl phosphate extn palladium
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(4)
CA: 114/07/061756V SC: CA126005 SX: 110 DT: J
TI: Synthesis and antibacterial activity of C-2 alkenylthiocarbapenem derivatives
AU: Corbett, David F. / Coulton, Steven / Knowles, David J. / Southgate, Robert
LW: Beecham Pharm. CI: Betchworth/Surrey PC: RH3 7AJ NA: UK
JN: J. Antibiot. VO: 43 IS: 9 PP: 1137-49 PY: 90 CO: JANTAJ
LA: Eng
KW: aminoalkenylthiocarbapenem prepn bactericide; carbapenem aminoalkenylthio prepn bactericide

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(5)
CA: 114/08/072164B SC: CA174001 DT: J
TI: Energy partitioning in the 266 nm dissociation of hydrazoic acid (HN3) and relative transition probabilities in the (NH)(c1II.rarw..fwdarw.a1.DELTA.) system
AU: Nelson, H. H. / McDonald J. R.
LW: Nav. Res. Lab. DV: Chem. Div. CI: Washington ST: DC PC: 20375
NA: USA
JN: J. Chem. Phys. VO: 93 IS: 12 PP: 8777-83 PY: 90 CO: JCPSA6
LA: Eng
KW: photodissocn hydrazoic acid imidogen fragment

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(6)
CA: 114/10/089430H SC: CA168005 SX: 169 DT: J
TI: Stability constants of hydrazoic acid-tributyl phosphate complexes in hexadecane solution
AU: Furton, Kenneth G. / Purnell, J. Howard / Stedman, Geoffrey
LW: Univ. Coll. Swansea DV: Dep. Chem. CI: Swansea PC: SA2 8PP
NA: UK
JN: J. Chem. Soc., Faraday Trans. VO: 86 IS: 21 PP: 3561-5 PY: 90
CO: JCFTEV LA: Eng
KW: gas chromatog hydrogen bond complex; hydrazoic acid TBP complex stability thermodn

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(7)
CA: 114/12/109202R SC: CA165005 DT: J
TI: Gaseous isomeric H2N3+ ions. A joint ab initio and mass spectrometric study of protonated hydrazoic acid
AU: Cacace, Fulvio / Attina, Marina / De Petris, Giulia / Grandinetti, Felice / Speranza, Maurizio
LW: Univ. "La Sapienza" Roma DV: Dip. Studi Chim. Tecnol. Sostanze Biologicamente Attive CI: Rome PC: I-00185 NA: Italy
JN: Gazz. Chim. Ital. VO: 120 IS: 11 PP: 691-700 PY: 90
CO: GCITA9 LA: Eng
KW: protonation hydrazoic acid; structure hydrazoic acid protonated; perturbation theory hydrazoic acid protonated

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(8)
CA: 114/12/111708D SC: CA174001 DT: J
TI: Fragment energy and vector correlations in the overtone-pumped dissociation of hydrazoic acid (HN3 ^X1A')
AU: Casassa, Michael P. / Foy, Bernard R. / Stephenson, John C. / King, David S.
LW: Natl. Inst. Stand. Technol. DV: Mol. Phys. Div. CI: Gaithersburg
ST: MD PC: 20899 NA: USA
JN: J. Chem. Phys. VO: 94 IS: 1 PP: 250-61 PY: 91 CO: JCPSA6
LA: Eng
KW: hydrazoic acid IR photodissocn vector correlation; photofragment energy vector correlation hydrazoic acid; photolysis IR hydrazoic acid dynamics

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(9)
CA: 114/12/114338U SC: CA179006 DT: P
TI: Potentiometric method and apparatus for determination of azide ions or hydrazoic acid
AU: Horn, Herr Gerhard
NA: Fed. Rep. Ger.
JN: Fr. Demande PP: 19 pp. PY: 901019 CO: FRXXBL LA: Fr
PAS: Kernforschungszentrum Karlsruhe G.m.b.H.
KW: azide detn potentiometry; hydrazoic acid detn potentiometry

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(10)
CA: 114/13/122930W SC: CA133009 SX: 101 DT: J
TI: Synthesis of unsaturated 4'-azido pyranosyl thymines as potential antiviral and anti-HIV agents
AU: Bessodes, Michel / Egron, Marie Jose / Filippi, Jean / Antonakis, Kostas
LW: CNRS DV: Inst. Rech. Sci. Cancer CI: Villeujuif PC: 94801
NA: Fr.
JN: J. Chem. Soc., Perkin Trans. 1 IS: 11 PP: 3035-9 PY: 90
CO: JCPRB4 LA: Eng
KW: unsatd azido oxo pyranosylthymine virucide

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(11)
CA: 114/14/129601Y SC: CA165005 SX: 176 DT: J
TI: Theoretical study of hydrazoic acid and methyl azide
AU: Chong, D. P.
LW: Univ. British Columbia DV: Dep. Chem. CI: Vancouver ST: BC
PC: V6T 1Y6 NA: Can.
JN: Chem. Phys. Lett. VO: 175 IS: 5 PP: 525-30 PY: 90 CO: CHPLBC
LA: Eng
KW: ab initio hydrazoic acid methyl azide; ground state hydrazoic acid methyl azide; dipole moment hydrazoic acid methyl azide; quadrupole coupling hydrazoic acid methyl azide; hydrazoic acid ground state ab initio; methyl azide ground state ab initio

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(12)
CA: 114/16/156010M SC: CA178008 SX: 175 DT: J
TI: The reaction of decaborane with hydrazoic acid: a novel access to azaboranes
AU: Mueller, J. / Paetzold, P. / Boese, R.
LW: Tech. Hochsch. Aachen DV: Inst. Anorg. Chem. CI: Aachen
PC: D-5100 NA: Fed. Rep. Ger.
JN: Heteroat. Chem. VO: 1 IS: 6 PP: 461-5 PY: 90 CO: HETCE8
LA: Eng
KW: azaborane; decaborane hydrazoic acid reaction; crystal structure aminoazidodecaborane; mol structure azadecaborane

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(13)
CA: 114/18/172309W SC: CA167003 SX: 122 DT: T
TI: Study of the elementary reactions of the nitrogen molecule in its lowest triplet state
AU: Boehmer, Ellen
LW: Max-Planck-Inst. Stroemungsforsch. CI: Goettingen NA: Fed. Rep. Ger.
JN: Ber. - Max-Planck-Inst. Stroemungsforsch. IS: 1, PP: 116 pp.
PY: 90 CO: MPSBBR LA: Ger
KW: nitrogen triplet reaction mol kinetics mechanism; ketene reaction nitrogen triplet kinetics; hydrazoic acid reaction nitrogen triplet kinetics; propyne reaction nitrogen triplet kinetics; allene reaction nitrogen triplet kinetics; oxide nitrogen reaction nitrogen triplet kinetics; ozone reaction nitrogen triplet kinetics; hydroxyamine reaction nitrogen triplet kinetics

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(14)
CA: 114/21/207563D SC: CA131005 DT: J
TI: Synthesis of Aristotelia-type alkaloids. Part VI. Biomimetic synthesis of (+)-aristofruticosine
AU: Beerli, Rene / Borschberg, Hans Juerg
LW: Eidg. Tech. Hochsch. DV: Lab. Org. Chem. CI: Zurich PC: CH-8092
NA: Switz.
JN: Helv. Chim. Acta VO: 74 IS: 1 PP: 110-16 PY: 91 CO: HCACAV
LA: Eng
KW: aristofruticosine biomimetic synthesis

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(15)
CA: 114/21/207788F SC: CA134003 SX: 128 DT: C
TI: Tetrazole peptide analogs
AU: Zabrocki, J. / Smith, G. D. / Dunbar, J. B., Jr. / Marshall, K. W. /
Toth, M. / Marshall, G. R.
LW: Politech. DV: Inst. Org. Chem. CI: Lodz PC: 90-924 NA: Pol.
JN: Pept., Proc. Eur. Pept. Symp., 20th PP: 295-7 PY: 89 CO: 57ACAI
LA: Eng
PU: de Gruyter
KW: bradykinin tetrazole analog symposium; dipeptide chlorination cyclocondensation azide symposium

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(16)
CA: 114/23/229163A SC: CA130010 DT: J
TI: Lewis acid catalyzed reactions of (+)-dihydrocarvone with hydrazoic acid: formation of a lactam and a new tetrazole derivative
AU: Ahmed, Alauddin / Bairagi, Binanta K. / Hai, Mohammed A.
LW: Jahangirnagar Univ. DV: Dep. Chem. CI: Dhaka PC: 1342
NA: Bangladesh
JN: J. Bangladesh Chem. Soc. VO: 3 IS: 2 PP: 239-41 PY: 90
CO: JBLSEH LA: Eng
KW: tetrazoloazepine tetrahydro; azepinone hexahydro; azepine tetrahydrotetrazolo; Lewis acid heterocyclization carvone hydrazoate; catalyst heterocyclization carvone hydrazoic acid; carvone heterocyclization hydrazoic acid

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CAS 113

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(1)
CA: 113/01/006710E SC: CA133007 DT: J
TI: A new route to 4-epi-L-daunosamine containing disaccharides
AU: Abbaci, Belgacem / Florent, Jean Claude / Monneret, Claude
LW: Fac. Sci. Pharm. Biol. DV: Dep. Pharmacogn. CI: Paris PC: 75270
NA: Fr.
JN: J. Chem. Soc., Chem. Commun. IS: 24 PP: 1896-7 PY: 89
CO: JCCCAT LA: Eng
KW: disaccharide synthon rhamnal erythrohexenopyranoside; hydrazoic acid addn hexenopyranose; iodomannopyranosyl acosaminide; arabinopyranosylacosaminide; acosaminide dideoxyiodomannopyranosyl dideoxyarabinopyranosyl; daunosamine disaccharide stereoselective prepn

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(2)
CA: 113/03/024294B SC: CA131003 DT: J
TI: Enantiospecific synthesis of optically active natural (+)-conhydrine from (S,S)-tartaric acid
AU: Masaki, Yukio / Imaeda, Toshihiro / Nagata, Kinnosuke / Oda, Hirohisa /
Ito, Akichika
LW: Gifu Pharm. Univ. CI: Gifu PC: 502 NA: Japan
JN: Tetrahedron Lett. VO: 30 IS: 46 PP: 6395-6 PY: 89 CO: TELEAY
LA: Eng
KW: conhydrine enantiospecific synthesis; dioxabicyclooctane ring opening

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(3)
CA: 113/05/039570N SC: CA122002 DT: J
TI: Quantum-chemical calculation of spectral parameters of alkyl azides in a system of dependent natural coordinates
AU: Zinov'ev, K. A.
LW: Timiryazev. S-Kh. Akad. CI: Moscow NA: USSR
JN: Izv. Timiryazevsk. S-kh. Akad. IS: 1 PP: 186-90 PY: 90
CO: ITSAA7 LA: Russ
KW: azide alkyl hydrazoic acid MINDO3; mol structure alkyl azide MINDO3; force const alkyl azide MINDO3; electrooptic parameter alkyl azide MINDO3

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(4)
CA: 113/06/049576H SC: CA174001 DT: J
TI: Vector correlations in the photofragmentation of hydrazoic acid (HN3)
AU: Gericke, K. H. / Theinl, R. / Comes, F. J.
LW: Inst. Phys. Theor. Chem. CI: Frankfurt/Main PC: D-6000/50
NA: Fed. Rep. Ger.
JN: J. Chem. Phys. VO: 92 IS: 11 PP: 6548-55 PY: 90 CO: JCPSA6
LA: Eng
KW: hydrazoic acid photofragmentation vector correlation; photolysis hydrazoic acid dynamics; imidogen photoproduct vector correlation

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(5)
CA: 113/07/059040T SC: CA128010 DT: J
TI: Dimroth rearrangement of imines derived from 1,5-diaminotetrazole
AU: Moderhack, Dietrich / Goos, Karl Heinz / Preu, Lutz
LW: Tech. Univ. Braunschweig DV: Inst. Pharm. Chem. CI: Braunschweig
PC: D-3300 NA: Fed. Rep. Ger.
JN: Chem. Ber. VO: 123 IS: 7 PP: 1575-7 PY: 90 CO: CHBEAM
LA: Ger
KW: Dimroth rearrangement aminotetrazolyl imine; tetrazolediamine arylmethylene Dimroth rearrangement
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(6)
CA: 113/08/067098H SC: CA171005 DT: J
TI: The behavior of hydrazoic acid in PUREX process solutions under safety aspects
AU: Ertel, D. / Schmieder, H. / Stollenwerk, A. H.
LW: Kernforschungszent. Karlsruhe DV: Inst. Heisse Chem. CI: Karlsruhe
PC: D-7500/1 NA: Fed. Rep. Ger.
JN: Nukl. Entsorgung VO: 4 IS: Saf. Nucl. Fuel Cycle PP: 107-19
PY: 89 CO: NUKEDA LA: Eng
KW: PUREX fuel reprocessing hydrazoic acid safety; reactor fuel reprocessing PUREX hydrazoic acid
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(7)
CA: 113/09/078317E SC: CA128016 DT: J
TI: Synthesis and use of 4-azidohexahydropyrimidine-2-thiones as efficient amidoalkylating reagents
AU: Shutalev, A. D. / Ignatova, L. A. / Unkovskii, B. V.
LW: Mosk. Inst. Tonkoi Khim. Tekhnol. CI: Moscow PC: 119831 NA: USSR
JN: Khim. Geterotsikl. Soedin. IS: 1 PP: 133-4 PY: 90 CO: KGSSAQ
LA: Russ
KW: amidoalkylating agent azidohexahydropyrimidenethione; pyrimidinethione azido hexahydro amidoalkylation
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(8)
CA: 113/12/104122J SC: CA167003 SX: 174 DT: J
TI: Chemiluminescent reactions of Group VI atoms [oxygen(3P) and selenium(3P)] with azide radicals
AU: Ongstad, Andrew P. / Henshaw, Thomas L. / Lawconnell, Robert I. /
Thorpe, William G.
LW: USAF Acad. DV: Frank J. Seiler Res. Lab. ST: CO PC: 80840-6528
NA: USA
JN: J. Phys. Chem. VO: 94 IS: 17 PP: 6724-30 PY: 90 CO: JPCHAX
LA: Eng
KW: azide reaction oxygen selenium kinetics chemiluminescence; hydrazoic acid reaction oxygen atom kinetics; heat formation azide radical
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(9)
CA: 113/12/106160U SC: CA174001 DT: J
TI: One-color photolysis-ionization study of hydrazoic acid (HN3): the molecular nitrogen fragment internal energy distribution and .mu.-v-J correlations
AU: Chu, Jan Jon / Marcus, Peter / Dagdigian, Paul J.
LW: Johns Hopkins Univ. DV: Dep. Chem. CI: Baltimore ST: MD
PC: 21218 NA: USA
JN: J. Chem. Phys. VO: 93 IS: 1 PP: 257-67 PY: 90 CO: JCPSA6
LA: Eng
KW: hydrazoic acid photolysis ionization photodissocn; photoproduct energy distribution hydrazoic acid photodissocn; vector correlation hydrazoic acid photolysis dynamics; mass spectrometry photolysis dynamics hydrazoic acid
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(10)
CA: 113/14/123422Y SC: CA173010 SX: 165 178 DT: J
TI: Metastable singlet nitrogen monofluoride: reactivity and energy storage
AU: Du, K. Y. / Setser, D. W.
LW: Kansas State Univ. DV: Dep. Chem. CI: Manhattan ST: KS
PC: 66502 NA: USA
JN: Proc. SPIE-Int. Soc. Opt. Eng. VO: 1225 IS: High-Power Gas Lasers
PP: 523-34 PY: 90 CO: PSISDG LA: Eng
KW: nitrogen fluoride reaction energy storage; laser nitrogen fluoride
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(11)
CA: 113/15/132088W SC: CA128009 DT: J
TI: Synthesis of 4-aminocycloheptimidazoles
AU: Ishida, Noritoshi / Imafuku, Kimiaki
LW: Kumamoto Univ. DV: Fac. Sci. CI: Kumamoto PC: 860 NA: Japan
JN: J. Heterocycl. Chem. VO: 27 IS: 4 PP: 887-9 PY: 90 CO: JHTCAD
LA: Eng
KW: Schmidt reaction cycloheptimidazole; aminocycloheptimidazole
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(12)
CA: 113/16/144024K SC: CA178007 SX: 172 175 DT: J
TI: Syntheses and x-ray crystal structures of bis(propanedithiolato)oxomolybdate(1-) and tris(propanedithiolato)(.mu.-azido)dioxodimolybdate(1-). A study of the redox behavior of [MoO(SCH2CH2S)2]- by cyclic voltammetry using convolution analysis
AU: Bishop, Peter T. / Dilworth, Jonathan R. / Hutchinson, John P. /
Zubieta, Jon A.
LW: Univ. Essex DV: Dep. Chem. Biol. Chem. CI: Colchester PC: C04 3SQ
NA: UK
JN: Transition Met. Chem. (London) VO: 15 IS: 3 PP: 177-82 PY: 90
CO: TMCHDN LA: Eng
KW: crystal structure molybdenum propanedithiolato complex; molybdenum oxo alkanedithiolato complex; thiolato alkanedi molybdenum complex; azido molybdenum dinuclear propanedithiolato; electrochem redn molybdate ethanedithiolato complex
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(13)
CA: 113/17/152393V SC: CA128006 SX: 101 DT: P
TI: Preparation of 4,5,5a,6-Tetrahydro-3H-isoxazolo[5,4,3-k]acridines as acetylcholinesterase inhibitors
AU: Shutske, Gregory M.
NA: USA
JN: U.S. PP: 8 pp. PY: 900424 CO: USXXAM LA: Eng
PAS: Hoechst-Roussel Pharmaceuticals, Inc.
KW: isoxazoloacridine prepn acetylcholinesterase inhibitor; acridine isoxazolo prepn acetylcholinesterase inhibitor; analgesic isoxazoloacridine; memory dysfunction treatment isoxazoloacridine
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(14)
CA: 113/17/152996U SC: CA134002 DT: J
TI: Enantioselective synthesis of hydroxy .alpha.-amino acids. (-)-erythro- and (-)-threo-.gamma.-hydroxynorvalines
AU: Ariza, Jesus / Font, Josep / Ortuno, Rosa M.
LW: Univ. Autonoma Barcelona DV: Dep. Quim. CI: Bellaterra PC: 08193
NA: Spain
JN: Tetrahedron VO: 46 IS: 6 PP: 1931-42 PY: 90 CO: TETRAB
LA: Eng
KW: enantioselective synthesis hydroxynorvaline; norvaline hydroxy enantioselective synthesis

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(15)
CA: 113/19/172712B SC: CA134003 DT: J
TI: Synthesis of phenolically linked cyclic peptides
AU: Crimmin, Michael J. / Brown, Allan G.
LW: Beecham Pharm. DV: Res. Div. CI: Betchworth/Surrey PC: RH3 7AJ
NA: UK
JN: Tetrahedron Lett. VO: 31 IS: 14 PP: 2021-4 PY: 90 CO: TELEAY
LA: Eng
KW: phenol linkage cyclic peptide

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(16)
CA: 113/20/181203P SC: CA174001 SX: 173 DT: D
TI: Vibrational spectroscopy and photochemistry of hydrazoic acid
AU: Halligan, David Thomas
LW: Rice Univ. CI: Houston ST: TX NA: USA
PP: 686 pp. PY: 89 CO: DABBBA LA: Eng
KW: photodissocn hydrazoic acid vibrational spectra

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(17)
CA: 113/20/183570E SC: CA178007 DT: J
TI: Metal complexes and metal promoted reactions of salicylaldehyde cyanoacetylhydrazone in ethanol. Part III
AU: El-Shazely, R. M. / Shallaby, A. M. / Mostafa, M. M.
LW: Mansoura Univ. DV: Fac. Sci. CI: Mansoura NA: Egypt
JN: Synth. React. Inorg. Met.-Org. Chem. VO: 20 IS: 3 PP: 283-99
PY: 90 CO: SRIMCN LA: Eng
KW: transition metal salicylaldehyde cyanoacetylhydrazone complex; hydrazone transition metal complex; hydrazoiminopropionic transition metal complex

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(18)
CA: 113/20/183571F SC: CA178007 DT: J
TI: Synthesis of new metal complexes derived from cyanoacetylhydrazone (SCH) and its derivatives with some transition metal ions in isopropanol and tert-butanol. (IV)
AU: El-Shazely, R. M. / Soliman, M. S. / Shallaby, A. M. / Mostafa, M. M.
LW: Mansoura Univ. DV: Fac. Sci. CI: Mansoura NA: Egypt
JN: Synth. React. Inorg. Met.-Org. Chem. VO: 20 IS: 3 PP: 301-18
PY: 90 CO: SRIMCN LA: Eng
KW: transition metal salicylaldehyde cyanoacetylhydrazone complex; hydrazoiminoalkoxypropionic transition metal complex

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(19)
CA: 113/24/220718G SC: CA173010 DT: J
TI: Comparison of the active media of chemical lasers operating in the visible range based on molecular hydrogen-fluorine-nitrogen difluoride and molecular hydrogen-fluorine-hydrazoic acid flames
AU: Dvoryankin, A. N. / Makarov, V. N. / Shcheglov, V. A.
NA: USSR
JN: Kratk. Soobshch. Fiz. IS: 1 PP: 6-8 PY: 90 CO: KRSFAU LA: Russ
KW: chem laser visible range active medium; hydrogen fluorine hydrazon acid flame laser

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CAS 112

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(1)
CA: 112/02/014101B SC: CA174001 DT: J
TI: Energetics and spin selectivity in the infrared multiphoton dissociation hydrazoic acid ^X1A') .fwdarw. nitrogen (X1.SIGMA.g+) + imidogen (X3.SIGMA.-,a1.DELTA.)
AU: Alexander, Millard H. / Dagdigian, Paul J.
LW: Univ. Maryland DV: Dep. Chem. CI: College Park ST: MD PC: 20742
NA: USA
JN: AIP Conf. Proc. VO: 191 IS: Adv. Laser Sci.-4 PP: 651-6 PY: 89
CO: APCPCS LA: Eng
KW: IR multiphoton photodissocn hydrazoic acid

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(2)
CA: 112/05/035792T SC: CA128016 DT: J
TI: An unexpected aminolysis in the synthesis of 5-substituted 3-(1H-tetrazol-5-yl)pyrazolo[1,5-a]quinazolines
AU: Peet, Norton P.
LW: Merrell Dow Res. Inst. CI: Cincinnati ST: OH PC: 45215 NA: USA
JN: J. Heterocycl. Chem. VO: 26 IS: 3 PP: 713-16 PY: 89
CO: JHTCAD LA: Eng
KW: tetrazolylpyrazoloquinazoline; aminolysis cyanomorpholinopyrazoloquinazoline prepn

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(3)
CA: 112/07/055728E SC: CA128010 DT: J
TI: Synthesis of C- and N-substituted oxiranyl-1,2,3-triazoles
AU: Maksikova, A. V. / Serebryakova, E. S. / Shcherbakov, V. V. / Gareev, G. A. / Vereshchagin, L. I.
LW: Inst. Nefte Uglekhim. Sint. NA: USSR
JN: Zh. Org. Khim. VO: 25 IS: 7 PP: 1519-23 PY: 89 CO: ZORKAE
LA: Russ
KW: triazole oxiranylmethyl; triazolyloxiranecarboxylate; oxiranyltriazole; oxiranylmethyltriazole; cycloaddn glycidyl azide acetylene; triazolecarboxaldehyde condensation chloroacetate

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(4)
CA: 112/08/065706K SC: CA173003 DT: J
TI: Resolution of the nitrogen-14 nuclear quadrupole hyperfine structure in the rotational spectrum of hydrazoic acid, HN3, and evaluation of the rotational constants of H15NNN and HNN15N
AU: Gerry, M. C. L. / Heineking, N. / Maeder, H. / Dreizler, H.
LW: Univ. Kiel DV: Inst. Phys. Chem. CI: Kiel NA: Fed. Rep. Ger.
JN: Z. Naturforsch., A: Phys. Sci. VO: 44 IS: 11 PP: 1079-86
PY: 89 CO: ZNASEI LA: Eng
KW: microwave spectra hydrazoic acid isotopomer; rotational const hydrazoic acid isotopomer; quadrupole hyperfine structure hydrazoic acid

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(5)
CA: 112/10/085326Q SC: CA168002 DT: J
TI: Extraction of hydrazoic acid by tributyl phosphate from uranium-containing nitric acid solutions
AU: Zil'berman, B. Ya. / Lelyuk, G. A. / Mashkin, A. N. / Fedorov, Yu. S.
NA: USSR
JN: Radiokhimiya VO: 31 IS: 5 PP: 53-7 PY: 89 CO: RADKAU
LA: Russ
KW: uranium effect hydrazoic acid extn; butyl phosphate extn hydrazoic acid

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(6)
CA: 112/11/098967Z SC: CA132007 DT: J
TI: Reaction of hydrazoic acid with 19-norketosteroids. Synthesis of 19-norsteroidal tetrazoles
AU: Shafiullah / Shamsuzzaman / Basha, D. M. / Ogura, H. / Takayanagi, H.
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202 002
NA: India
JN: J. Chem. Res., Synop. IS: 2 PP: 50-1 PY: 89 CO: JRPSDC LA: Eng
KW: oxo norsteroid reaction hydrazoic acid; tetrazole norsteroid

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(7)
CA: 112/12/108331D SC: CA174001 DT: J
TI: Photofragment energy distribution and rotational anisotropy from excitation of hydrazoic acid at 266 nm
AU: Gericke, K. H. / Theinl, R. / Comes, F. J.
LW: Inst. Phys. Theor. Chem. CI: Frankfurt/Main PC: D-6000/50
NA: Fed. Rep. Ger.
JN: Chem. Phys. Lett. VO: 164 IS: 6 PP: 605-11 PY: 89 CO: CHPLBC
LA: Eng
KW: hydrazoic acid photodissocn dynamics; photofragment energy distribution hydrazoic acid photolysis

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(8)
CA: 112/19/177853N SC: CA122008 DT: D
TI: Photodissociation dynamics of (1) cyclooctatetraene and styrene (2) dimethylzinc and dimethylcadmium and (3) hydrazoic acid and subsequent reactions of the primary photoproducts of hydrazoic acid
AU: Youngs, Frederick Michael
LW: Columbia Univ. CI: New York ST: NY NA: USA
PP: 96 pp. PY: 89 CO: DABBBA LA: Eng
KW: photodissocn dynamics; cyclooctatetraene styrene photodissocn dynamics; zinc cadmium dimethyl photodissocn dynamics; hydrazoic acid photodissocn dynamics

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(9)
CA: 112/19/178182E SC: CA125005 SX: 124 DT: J
TI: Structure of the IN3 adduct of 1-phenylcyclohexane. Its chemistry and CH coupling as a diagnostic tool
AU: Hassner, Alfred / Dehaen, Wim
LW: Bar-Ilan Univ. DV: Dep. Chem. CI: Ramat-Gan PC: 52100 NA: Israel
JN: J. Org. Chem. VO: 55 IS: 7 PP: 2243-5 PY: 90 CO: JOCEAH
LA: Eng
KW: phenylcyclohexene addn iodine azide regiochem; azidoiodophenylcyclohexane prepn NMR; cyclohexane azido phenyl; mol structure azidoiodophenylcyclohexene; structure iodine azide phenylcyclohexene adduct

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(10)
CA: 112/25/235727N SC: CA133007 DT: J
TI: Addition of hydrazoic acid to pseudoglycals. Stereoselective synthesis of L-acosamine and L-daunosamine
AU: Abbaci, Belgacem / Florent, Jean Claude / Monneret, Claude
LW: Univ. Rene-Descartes CI: Paris PC: 75270 NA: Fr.
JN: Bull. Soc. Chim. Fr. IS: Sept.-Oct. PP: 667-72 PY: 89
CO: BSCFAS LA: Eng
KW: addn hydrazoic acid pseudoglycal; acosamine stereoselective prepn; daunosamine stereoselective prepn

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CAS111

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(1)
CA: 111/03/023535C SC: CA128016 SX: 101 DT: P
TI: Preparation of 9-phenoxymethyl-3-(1H-tetrazol-5-yl)-4H-pyrido[1,2-a]pyrimidin-4-ones as allergy inhibitors
AU: Nakagawa, Yoshio / Amano, Michiaki / Kakehi, Norihiko
NA: Japan
JN: Jpn. Kokai Tokkyo Koho PP: 6 pp. PY: 881013 CO: JKXXAF LA: Japan
PAS: Tokyo Tanabe Co., Ltd.
KW: tetrazolylpyridopyrimidinone phenoxymethyl prepn allergy inhibitor; pyridopyrimidinone tetrazolyl phenoxymethyl allergy inhibitor; pyridylaminocyanoacrylate cyclocondensation hydrazoic acid salt

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(2)
CA: 111/05/038844B SC: CA123016 SX: 126 DT: J
TI: Reaction of hydrazoic acid with .gamma.- and .beta.-oxo olefinic fatty acids
AU: Afaque, Shahla / Ansari, M. H. / Siddiqui, M. S.
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202002
NA: India
JN: Fett Wiss. Technol. VO: 90 IS: 12 PP: 470-5 PY: 88 CO: FWTEEG
LA: Eng
KW: hydrazoic acid condensation oxooctadecenoic acid; oxo unsatd acid reaction hydrazoic acid; nonenylcarbamoyloctanoic acid; octanoic acid nonenylcarbonamido; hexyl carboxydecenyl urea; hexylcarbamoylundecenoic acid; undecenoic acid hexylcarbonamido

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(3)
CA: 111/06/042348K SC: CA150001 SX: 159 DT: J
TI: Thermal decomposition of energetic materials. 31 - Fast thermolysis of ammonium nitrate, ethylenediammonium dinitrate and hydrazinium nitrate and the relationship to the burning rate
AU: Russell, Thomas P. / Brill, Thomas B.
LW: Univ. Delaware DV: Dep. Chem. CI: Newark ST: DE PC: 19716
NA: USA
JN: Combust. Flame VO: 76 IS: 3-4 PP: 393-401 PY: 89 CO: CBFMAO
LA: Eng
KW: thermal decompn propellant ignition; safety hydrazoic acid propellant; nitrate propellant ignition thermolysis; ammonium nitrate ignition thermolysis; hydrazine nitrate ignition thermolysis; hydroxylamine nitrate ignition thermolysis

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(4)
CA: 111/10/084748W SC: CA167003 DT: J
TI: Elementary reactions of imidogen(a1.DELTA.) with polyatomic molecules
AU: Hack, W. / Wilms, A.
LW: Max-Planck-Inst. Stroemungsforsch. CI: Goettingen PC: D-3400
NA: Fed. Rep. Ger.
JN: Z. Phys. Chem. (Munich) VO: 161 IS: 1-2 PP: 107-21 PY: 89
CO: ZPCFAX LA: Eng
KW: imidogen reaction mol kinetics; water vapor reaction imidogen kinetics; nitrous oxide reaction imidogen kinetics; nitrogen dioxide reaction imidogen kinetics; carbon dioxide reaction imidogen kinetics; benzene reaction imidogen kinetics; hydrazoic acid reaction imidogen kinetics

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5)
CA: 111/10/086562E SC: CA173005 SX: 174 DT: J
TI: Dissociation lifetimes and level mixing in overtone-excited hydrazoic acid (HN3(^X1A'))
AU: Foy, B. R. / Casassa, M. P. / Stephenson, J. C. / King, D. S.
LW: Natl. Inst. Stand. Technol. DV: Mol. Spectrosc. Div.
CI: Gaithersburg ST: MD PC: 20899 NA: USA
JN: J. Chem. Phys. VO: 90 IS: 12 PP: 7037-45 PY: 89 CO: JCPSA6
LA: Eng
KW: photodissocn hydrozoic acid; predissocn lifetime hydrozoic acid

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(6)
CA: 111/21/194153F SC: CA124006 DT: J
TI: Synthesis of trans-1,3-cyclooctadiene-5,7-dicarboxylic acid
AU: Zhang, Haifeng
NA: Peop. Rep. China
JN: Hebei Shifan Daxue Xuebao, Ziran Kexueban IS: 1 PP: 13-15 PY: 87
CO: HSDKEG LA: Ch
KW: cyclooctadienedicarboxylic acid trans

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(7)
CA: 111/25/232643A SC: CA128007 DT: J
TI: A new heterocyclic system - 5,6,7,8-tetrahydro-4H-thiazolo[5,4-c]azepin-8-one
AU: Ivanov, E. I. / Stepanov, D. E. / Gerashchenko, V. V. / Grishchuk, L. V.
LW: Fiz.-Khim. Inst. CI: Odessa PC: 270080 NA: USSR
JN: Khim. Geterotsikl. Soedin. IS: 2 PP: 277 PY: 89 CO: KGSSAQ
LA: Russ
KW: thiazoloazepinone; Schmidt reaction benzothiazolone deriv; ring enlargement benzothiazolone hydrazoic acid; Beckman rearrangement benzothiazolone tosyloxime

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(8)
CA: 111/26/243197J SC: CA173005 SX: 174 DT: J
TI: Vibrational predissociation dynamics of overtone-excited hydrazoic acid
AU: Foy, B. R. / Casassa, M. P. / Stephenson, J. C. / King, D. S.
LW: Natl. Inst. Stand. Technol. DV: Mol. Spectrosc. Div.
CI: Gaithersburg ST: MD PC: 20899 NA: USA
JN: AIP Conf. Proc. VO: 191 IS: Adv. Laser Sci.-4 PP: 612-14 PY: 89
CO: APCPCS LA: Eng
KW: laser fluorescence hydrazoic acid

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(9)
CA: 111/26/246749B SC: CA178007 DT: J
TI: Synthesis and properties of binuclear nitride-bridged iron octaphenyltetraazaporphyrin ESR studies of dioxygen adduc
AU: Stuzhin, P. A. / Latos-Grazynski, Lechoslaw / Jezierski, Adam
LW: Inst. Chem. Technol. CI: Ivanovo PC: 153 460 NA: USSR
JN: Transition Met. Chem. (London) VO: 14 IS: 5 PP: 341-6 PY: 89
CO: TMCHDN LA: Eng
KW: ESR iron nitrido tetraazaporphyrinato dinuclear; dioxygen iron nitrido tetraazaporphyrinato dinuclear; Moessbauer iron nitrido tetraazaporphyrinato dinuclear

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CAS 110

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(1)
CA: 110/03/024147U SC: CA132007 DT: J
TI: Synthesis of steroidal bromotetrazoles
AU: Shafiullah / Siddiqui, Ishrat Husain
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202 002
NA: India
JN: J. Indian Chem. Soc. VO: 65 IS: 4 PP: 293-4 PY: 88 CO: JICSAH
LA: Eng
KW: bromocholestanone cyclization hydrazoic acid; cholestanone bromo cyclization hydrazoic acid; tetrazoloazahomocholestane bromo

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(2)
CA: 110/03/024149W SC: CA132007 DT: J
TI: Synthesis of some cyano azasteroids
AU: Husain, Mashkoor / Habib, Rubina / Shahabuddin / Fazal, Abul / Husain, Mubarak
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202 002
NA: India
JN: Indian J. Chem., Sect. B VO: 27B IS: 5 PP: 435-7 PY: 88
CO: IJSBDB LA: Eng
KW: cyano azasteroid

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(3)
CA: 110/05/038924G SC: CA128002 SX: 131 DT: J
TI: Pyran derivatives. 123. Oxabenzomorphans: synthesis of CNS-effective hexahydro-2,7-methano-1,5-benzoxazonines
AU: Eiden, Fritz / Gmeiner, Peter
LW: Ludwig-Maximilians-Univ. DV: Inst. Pharm. Lebensmittelchem.
CI: Munich PC: D-8000/2 NA: Fed. Rep. Ger.
JN: Arch. Pharm. (Weinheim, Ger.) VO: 321 IS: 6 PP: 321-4 PY: 88
CO: ARPMAS LA: Ger
KW: oxabenzomorphan; methanobenzoxazonine

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(4)
CA: 110/07/056820Z SC: CA122004 SX: 178 DT: J
TI: Reaction of carbon(3P) atoms with azide radicals
AU: May, D. J. / Coombe, R. D.
LW: Univ. Denver DV: Dep. Chem. CI: Denver ST: CO PC: 80208
NA: USA
JN: J. Phys. Chem. VO: 93 IS: 2 PP: 520-5 PY: 89 CO: JPCHAX
LA: Eng
KW: carbon atom reaction azide radical

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(5)
CA: 110/07/058018T SC: CA134002 SX: 124 DT: J
TI: Regiospecific additions of hydrazoic acid and benzylamine to 1-(arylsulfonyl)bicyclo[1.1.0]butanes. Application to the synthesis of cis and trans 2,7-methanoglutamic acids
AU: Gaoni, Yehiel
LW: The Weizmann Inst. Sci. DV: Dep. Org. Chem. CI: Rehovot NA: Israel
JN: Tetrahedron Lett. VO: 29 IS: 13 PP: 1591-4 PY: 88 CO: TELEAY
LA: Eng
KW: azide tetramethylguanidinium addn bicyclobutane regiochem; benzylamine addn bicyclobutane regiochem; methanoglutamic acid; hydrazoic acid addn arylsulfonylbicyclobutane regiochem

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(6)
CA: 110/08/066700Z SC: CA174001 SX: 173 DT: J
TI: Photochemistry of ozone/hydrazoic acid mixtures
AU: Ongstad, A. P. / Coombe, R. D. / Neumann, D. K. / Stech, D. J.
LW: Univ. Denver DV: Dep. Chem. CI: Denver ST: CO PC: 80208
NA: USA
JN: J. Phys. Chem. VO: 93 IS: 2 PP: 549-52 PY: 89 CO: JPCHAX
LA: Eng
KW: ozone hydrazoic acid photolysis kinetics; singlet atom oxygen hydrazoic acid photolysis

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(7)
CA: 110/10/084480G SC: CA173003 DT: J
TI: Infrared spectrum of the .nu.4 band of hydrazoic acid
AU: Bendtsen, Joergen / Nicolaisen, Flemming M.
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 133 IS: 1 PP: 193-200 PY: 89
CO: JMOSA3 LA: Eng
KW: hydrazoic acid IR rotation

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(8)
CA: 110/12/107110C SC: CA178009 DT: J
TI: Interaction of hydrazoic acid with actinoids
AU: Zil'berman, B. Ya. / Lelyuk, G. A. / Mashkin, A. N. / Fedorov, Yu. S.
NA: USSR
JN: Radiokhimiya VO: 30 IS: 6 PP: 837-40 PY: 88 CO: RADKAU
LA: Russ
KW: hydrazoic acid reaction actinoid; plutonium 4 effect hydrazoic formation; uranium 4 oxidn hydrazoic effect; neptunium 6 redn hydrazoic acid

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(9)
CA: 110/13/114298Y SC: CA123021 DT: J
TI: Synthesis of fluorinated difunctional monomers
AU: Takakura, T. / Yamabe, M. / Kato, M.
LW: Asahi Glass Co., Ltd. DV: Res. & Dev. Div. CI: Yokohama PC: 221
NA: Japan
JN: J. Fluorine Chem. VO: 41 IS: 2 PP: 173-83 PY: 88 CO: JFLCAR
LA: Eng
KW: polyfluoroalkanediol Jones oxidn; fluoroalkanedioic acid prepn chlorination; alkanedicarbonyl chloride polyfluorosubstitution azide; Curtius rearrangement polyfluoro

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(10)
CA: 110/18/163390F SC: CA174001 SX: 167 DT: J
TI: Kinetic study of imidogen(a) by emission
AU: Freitag, F. / Rohrer, F. / Stuhl, F.
LW: Ruhr-Univ. CI: Bochum PC: D-4630 NA: Fed. Rep. Ger.
JN: J. Phys. Chem. VO: 93 IS: 8 PP: 3170-4 PY: 89 CO: JPCHAX
LA: Eng
KW: imidogen phosphorescence quenching kinetics metastable

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(11)
CA: 110/20/182668U SC: CA174001 SX: 167 DT: J
TI: Elementary reactions of imidogen(a1.DELTA.) with atoms and diatomic molecules
AU: Hack, W. / Wilms, A.
LW: Max-Planck-Inst. Stroemungsforsch. CI: Goettingen PC: 3400
NA: Fed. Rep. Ger.
JN: J. Phys. Chem. VO: 93 IS: 9 PP: 3540-6 PY: 89 CO: JPCHAX
LA: Eng
KW: kinetics excited imidogen reaction photolysis; quenching imidogen kinetics

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(12)
CA: 110/21/192327W SC: CA125004 DT: J
TI: Selective conversion of benzylic carbon-hydrogen bonds to an amine function by oxidative nucleophilic substitution
AU: Guy, Alain / Lemor, Alain / Doussot, Joel / Lemaire, Marc
LW: Conservatoire Natl. Arts Metiers DV: Lab. Chim. Org. CI: Paris
PC: F-75141 NA: Fr.
JN: Synthesis IS: 11 PP: 900-2 PY: 88 CO: SYNTBF LA: Eng
KW: alkylarene oxidative nucleophile substitution azide; azide aralkyl prepn hydrogenation; amine aralkyl

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CAS109

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(1)
CA: 109/02/014486U SC: CA174001 DT: J
TI: The 93 (and 248) nm photolysis of hydrazoic acid (HN3): formation and internal energy distributions of the imidogen (NH) (a1.DELTA., b1.SIGMA.+, A3.PI., and c1.PI.) states
AU: Rohrer, F. / Stuhl, F.
LW: Ruhr-Univ. DV: Phys. Chem. I CI: Bochum PC: D-4630 NA: Fed. Rep. Ger.
JN: J. Chem. Phys. VO: 88 IS: 8 PP: 4788-99 PY: 88 CO: JCPSA6
LA: Eng
KW: hydrazoic acid photolysis photoproduct energy; imidogen internal energy distribution photofragment

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(2)
CA: 109/04/029897C SC: CA174001 SX: 153 167 DT: J
TI: Photochemical production of nitric oxide (A2.SIGMA.+) in mixtures of hydrazoic acid and ozone
AU: Neumann, David K. / Coombe, Robert D. / Ongstad, Andrew P. / Stech, Daniel J.
LW: USAF Acad. DV: Dep. Phys. CI: Colorado Springs ST: CO PC: 80840
NA: USA
JN: Proc. SPIE-Int. Soc. Opt. Eng. VO: 875 IS: Short Ultrashort Wavelength Lasers PP: 142-8 PY: 88 CO: PSISDG LA: Eng
KW: nitric oxide excited photoprodn ozone; hydrazoic acid ozone photolysis nitric oxide

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(3)
CA: 109/07/054351C SC: CA124008 DT: J
TI: Reaction of diamantanone with hydrazoic acid in methanesulfonic acid (Schmidt reaction)
AU: Isaev, S. D. / Vodicka, L. / Burkhard, I. / Janku, I. / Kovalenko, A. L.
NA: USSR
JN: Vestn. Kiev. Politekh. Inst., Khim. Mashinostr. Tekhnol. VO: 24, PP: 3-6 PY: 87 CO: VKMTAC LA: Russ
KW: Schmidt reaction diamantanone solvent effect; hydroxyadamantanone

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(4)
CA: 109/09/072774X SC: CA122006 DT: J
TI: A comparison of the MNDO and AM1 SCF-MO energy surfaces for dipolar cycloaddition and [3,3] sigmatropic reactions
AU: Grierson, Lebert / Perkins, M. John / Rzepa, Henry S.
LW: Royal Holloway Bedford New Coll. DV: Dep. Chem. CI: Egham/Surrey
PC: TW20 0EX NA: UK
JN: J. Chem. Soc., Chem. Commun. IS: 23 PP: 1779-81 PY: 87
CO: JCCCAT LA: Eng
KW: MNDO hypersurface dipolar cycloaddn; AM1 sigmatropic rearrangement hypersurface; SCF MO rearrangement hypersurface
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(5)
CA: 109/10/084922G SC: CA178006 DT: J
TI: The crystal structure of rubidium calcium azide Rb2Ca(N3)4.4H2O
AU: Mautner, Franz A. / Krischner, Harald
LW: Tech. Univ. Graz DV: Inst. Phys. Theor. Chem. CI: Graz PC: A-8010
NA: Austria
JN: Z. Naturforsch., B: Chem. Sci. VO: 43 IS: 4 PP: 497-8 PY: 88
CO: ZNBSEN LA: Ger
KW: crystal structure rubidium calcium azide
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(6)
CA: 109/13/109800F SC: CA122013 DT: J
TI: Reactions of imidogen radicals. 6. Reactions of imidogen(a1.DELTA.) with acetylene and unimolecular decompositions of C2H3N*
AU: Kodama, Sukeya
LW: Univ. Osaka Prefect. DV: Coll. Eng. CI: Sakai PC: 591 NA: Japan
JN: J. Phys. Chem. VO: 92 IS: 17 PP: 5019-24 PY: 88 CO: JPCHAX
LA: Eng
KW: imidogen reaction acetylene kinetics mechanism; azirine excited unimol decompn; aminoacetylene excited unimol decompn; photolysis hydrazoic acid acetylene
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(7)
CA: 109/14/112938N SC: CA150002 SX: 169 DT: J
TI: Theoretical studies on the decomposition of azides
AU: Haskins, P. J. / Cook, M. D.
LW: R. Armament Res. and Dev. Establ. CI: Sevenoaks/Kent PC: TN14 7BP
NA: UK
JN: Proc. Symp. Explos. Pyrotech. VO: 13th, PP: II1-II6 PY: 86
CO: PSEPDL LA: Eng
KW: azide decompn; hydrazoate decompn; MO hydrazoic acid decompn; explosion hydrazoic acid; detonation hydrazoic acid
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(8)
CA: 109/14/118682W SC: CA173005 DT: J
TI: Laser spectroscopy of calcium and strontium monoazide free radicals
AU: Brazier, C. R. / Bernath, P. F.
LW: Univ. Arizona DV: Dep. Chem. CI: Tucson ST: AZ PC: 85721
NA: USA
JN: J. Chem. Phys. VO: 88 IS: 4 PP: 2112-16 PY: 88 CO: JCPSA6
LA: Eng
KW: strontium azide laser spectroscopy; calcium azide mol const
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(9)
CA: 109/15/129107P SC: CA129006 DT: T
TI: Basic research in energetic fluorocarbons
AU: Schack, C. J. / Christe, K. O.
LW: Rockwell Inst. DV: Rocketdyne Div. CI: Canoga Park ST: CA
NA: USA
JN: Report IS: RI/RD87-139, AFOSR-TR-87-0368; Order No. AD-A179676/2/GAR,
PP: 51 pp. PY: 87 CO: D8REP4 LA: Eng
KW: nitride trimethylsilyl reaction xenon fluoride; potassium perchlorate reaction trimethylsilyl chloride; azide radical trapping fluoroolefin; nitrous nitride attempted prepn; nitryl azide; perfluorovinylcadmium iodide; pentafluorosulfur oxide
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(10)
CA: 109/16/138888W SC: CA174001 DT: J
TI: Energetics and spin- and .LAMBDA.-doublet selectivity in the infrared multiphoton dissociation hydrazoic acid-d .fwdarw. imidogen-d + molecular nitrogen (DN3 .fwdarw. DN(X3.SIGMA.-,a1.DELTA.) + N2(X1.SIGMA.g+): experiment
AU: Stephenson, John C. / Casassa, Michael P. / King, David S.
LW: Natl. Bur. Stand. DV: Mol. Spectrosc. Div. CI: Gaithersburg
ST: MD PC: 20899 NA: USA
JN: J. Chem. Phys. VO: 89 IS: 3 PP: 1378-87 PY: 88 CO: JCPSA6
LA: Eng
KW: IR multiphoton photolysis hydrazoic acid; rotational distribution imidogen photofragment; triplet imidogen photodissocn hydrazoic acid
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(11)
CA: 109/16/138889X SC: CA174001 DT: J
TI: Energetics and spin- and .LAMBDA.-doublet selectivity in the infrared multiphoton dissociation hydrazoic acid .fwdarw. molecular nitrogen + imidogen [HN3(^X1A) .fwdarw. N2(X1.SIGMA.g+) + NH(X3.SIGMA.-, a1.DELTA.)]: theory
AU: Alexander, Millard H. / Werner, Hans Joachim / Dagdigian, Paul J.
LW: Univ. Maryland DV: Dep. Chem. CI: College Park ST: MD PC: 20742
NA: USA
JN: J. Chem. Phys. VO: 89 IS: 3 PP: 1388-400 PY: 88 CO: JCPSA6
LA: Eng
KW: IR photolysis hydrazoic acid energetics; MCCI calcn hydrazoic acid orbital; singlet triplet surface crossing hydrazoic acid; spin selectivity hydrazoic acid IR photolysis; lambda doublet hydrazoic acid IR photolysis; wave function hydrazoic acid photodissocn
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(12)
CA: 109/18/160340H SC: CA174001 DT: J
TI: Mechanism of the reaction imidogen(1.DELTA.) + nitric oxide .fwdarw. nitrous oxide + atomic hydrogen in the gas phase
AU: Fueno, Takayuki / Fukuda, Masayuki / Yokoyama, Keiichi
LW: Osaka Univ. DV: Fac. Eng. Sci. CI: Toyonaka PC: 560 NA: Japan
JN: Chem. Phys. VO: 124 IS: 2 PP: 265-72 PY: 88 CO: CMPHC2
LA: Eng
KW: hydrazoic acid photolysis nitrogen oxide; excited imidogen nitric oxide reaction
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(1)
CA: 108/01/005667F SC: CA125021 SX: 122 128 DT: J
TI: Addition of hydrazoic acid and carboxylic acids to N-p-(nitrophenyl)-N'-cyclohexylcarbodiimide
AU: Mironova, D. F. / Staninets, V. I.
LW: Inst. Org. Khim. CI: Kiev NA: USSR
JN: Ukr. Khim. Zh. (Russ. Ed.) VO: 52 IS: 12 PP: 1269-73 PY: 86
CO: UKZHAU LA: Russ
KW: cyclohexylnitrophenylcarbodiimide prepn addn acid; carbodiimide cyclohexylnitrophenyl prepn addn acid; hydrozoic acid cycloaddn carbodiimide kinetics; carboxylic acid addn carbodiimide regiochem

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(2)
CA: 108/03/022082D SC: CA130020 DT: J
TI: Retinoids. VIII. Azidoretinoids
AU: Hopf, Henning / Krause, Norbert
LW: Tech. Univ. Braunschweig DV: Inst. Org. Chem. CI: Braunschweig
PC: D-3300 NA: Fed. Rep. Ger.
JN: Tetrahedron Lett. VO: 27 IS: 51 PP: 6177-80 PY: 86 CO: TELEAY
LA: Ger
KW: retinoid azido; alkenynal cyclohexenyl prepn azide addn; addn hydrazoic acid cyclohexenylalkenynal; hydrazoic acid addn cyclohexenylalkenynal; vitamin A azide analog prepn

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(3)
CA: 108/05/037341M SC: CA125019 DT: J
TI: Synthetic methods. 25. Titanium tetrachloride-catalyzed addition of hydrazoic acid to aldehydes and ketones. Thermolysis and photolysis of .alpha.-azido ethers
AU: Hassner, Alfred / Fibiger, Richard / Amarasekara, Ananda S.
LW: Bar-Ilan Univ. DV: Dep. Chem. CI: Ramat-Gan PC: 52100 NA: Israel
JN: J. Org. Chem. VO: 53 IS: 1 PP: 22-7 PY: 88 CO: JOCEAH
LA: Eng
KW: azido ether prepn photolysis thermolysis; rearrangement azido ether; hydrazoic acid addn aldehyde ketone; imino ether; imidate

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(4)
CA: 108/05/037707K SC: CA128006 DT: J
TI: Cycloadditions. 34. Intramolecular azide-olefin cycloadditions. A novel synthesis of 2,5-dihydrooxazoles
AU: Hassner, Alfred / Amarasekara, Ananda S. / Andisik, Donald
LW: Bar-Ilan Univ. DV: Dep. Chem. CI: Ramat-Gan PC: 52100 NA: Israel
JN: J. Org. Chem. VO: 53 IS: 1 PP: 27-30 PY: 88 CO: JOCEAH
LA: Eng
KW: oxazole dihydro; intramol azide olefin cycloaddn; allyl azidoalkyl ether prepn thermolysis

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(5)
CA: 108/05/038264A SC: CA133009 DT: J
TI: Glycosyl azides as starting materials for the preparation of nucleoside analogs. Part III. Syntheses of (alkylamino)tetrazole and uretidinone nucleosides
AU: Knotz, Herbert / Zbiral, Erich
LW: Univ. Wien DV: Inst. Org. Chem. CI: Vienna PC: A-1090
NA: Austria
JN: Monatsh. Chem. VO: 117 IS: 12 PP: 1437-60 PY: 86 CO: MOCMB7
LA: Ger
KW: nucleoside tetrazolyl diazetidinyl diazetidinylimino; ribofuranosyl azide isocyanate; carbodiimide ribofuranosyl prepn azidolysis

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(6)
CA: 108/07/056352G SC: CA130015 SX: 122 175 DT: J
TI: Schmidt reaction on camphor. Part I. Structure of the products
AU: Hunter, Norman R. / Khan, M. Zafar / Marat, Kirk / El-Kabbani, Ossama
A. L. / Delbaere, Louis T. J.
LW: Univ. Manitoba DV: Dep. Chem. CI: Winnipeg ST: MB PC: R3T 2N2
NA: Can.
JN: Can. J. Chem. VO: 65 IS: 1 PP: 137-49 PY: 87 CO: CJCHAG
LA: Eng
KW: diazabicyclononanone trimethyl crystal mol structure; crystal structure trimethyldiazabicyclononanone; mol structure trimethyldiazabicyclononanone; Schmidt reaction camphor; camphidone

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(7)
CA: 108/08/064985F SC: CA173003 DT: J
TI: The .nu.1 and .nu.2 + .nu.4 bands in the infrared spectrum of hydrazoic acid
AU: Cheung, A. S. C. / Merer, A. J.
LW: Univ. Hong Kong DV: Dep. Chem. CI: Hong Kong NA: Hong Kong
JN: J. Mol. Spectrosc. VO: 127 IS: 2 PP: 509-26 PY: 88 CO: JMOSA3
LA: Eng
KW: IR hydrazoic acid

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(8)
CA: 108/14/121330Q SC: CA173005 DT: J
TI: Energy-transfer reaction of nitrogen (A3.SIGMA.u+) to sulfur monoxide and other diatomic and polyatomic molecules
AU: Cao, De Zhao / Setser, D. W.
LW: Kansas State Univ. DV: Dep. Chem. CI: Manhattan ST: KS
PC: 66506 NA: USA
JN: J. Phys. Chem. VO: 92 IS: 5 PP: 1169-78 PY: 88 CO: JPCHAX
LA: Eng
KW: nitrogen energy transfer mol

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(9)
CA: 108/15/131052Q SC: CA123019 DT: P
TI: Preparation of azobisisobutyronitrile
AU: Dragutan, Valerian / Dragutan, Ileana / Medvenic, Constantin / Caproiu,
Otilia Eugenia Yvonna
NA: Rom.
JN: Rom. PP: 3 pp. PY: 870630 CO: RUXXA3 LA: Rom
PAS: Centrul de Chimie Organica
KW: azobisisobutyronitrile; isobutyronitrile azobis; hydrazobisisobutyronitrile oxidn; alkali metal hypohalite azobisisobutyronitrile prepn

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(10)
CA: 108/15/131641F SC: CA128006 SX: 125 DT: J
TI: Studies on quinones. XVII. The reaction of acylbenzoquinones with hydrazoic acid: a route to the preparation of 2,1-benzisoxazole-4,7-quinones
AU: Cassis, Raul / Fernandez, Monica / Tapia, Ricardo / Valderrama, Jaime A.
LW: Pontif. Univ. Catol. Chile DV: Fac. Quim. CI: Santiago NA: Chile
JN: Synth. Commun. VO: 17 IS: 9 PP: 1077-88 PY: 87 CO: SYNCAV
LA: Eng
KW: benzoquinone acyl addn hydrazoic acid; acylbenzoquinone addn hydrazoic acid; oxidn acylazidohydroquinone cyclization; azidoacylhydroquinone oxidn cyclization; hydroquinone acyl azido oxidn; benzisoxazolequinone
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(11)
CA: 108/15/131688B SC: CA128010 DT: J
TI: 3-(Trifluoromethyl)-1H-1,2,4-triazole from 5,5-bis(trifluoromethyl)-1H-1,2,4-triazol-3-ines
AU: Burger, Klaus / Kahl, Thomas
LW: Tech. Univ. Muenchen DV: Org.-Chem. Inst. CI: Munich NA: Fed.
Rep. Ger.
JN: J. Fluorine Chem. VO: 36 IS: 3 PP: 329-38 PY: 87 CO: JFLCAR
LA: Ger
KW: diazabutadiene fluoromethyl azidolysis; triazoline fluoromethyl prepn thermolysis; triazole fluoromethyl
----------(12)
CA: 108/15/132274A SC: CA134002 DT: J
TI: Amino acid sulfoximines: .alpha.-ethylmethionine sulfoximine
AU: Griffith, Owen W.
LW: Cornell Univ. DV: Med. Coll. CI: New York ST: NY PC: 10021
NA: USA
JN: Methods Enzymol. VO: 143 IS: Sulfur Sulfur Amino Acids PP: 286-91
PY: 87 CO: MENZAU LA: Eng
KW: ethylmethionine sulfoximine
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(13)
CA: 108/17/150291H SC: CA127021 DT: J
TI: Synthesis of 3-[(2-piperidyl- and 2-homopiperidyl)methyl]tetrahydro-2-benzazepines and related compounds
AU: Hammouda, M. / Hamama, W. S. / Afsah, E. M.
LW: Mansoura Univ. DV: Fac. Sci. CI: Mansoura NA: Egypt
JN: J. Prakt. Chem. VO: 329 IS: 3 PP: 520-4 PY: 87 CO: JPCEAO
LA: Eng
KW: cyclopentanone cyclohexanone alkylation morpholinomethyltetralone; cycloalkylmethyltetralone cyclopentylmethylindanone prepn Schmidt reaction; indanone morpholinomethyl alkylation cyclopentanone; benzazepine piperidylmethyl azepinylmethyl; isoquinoline piperidylmethyl
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(14)
CA: 108/20/176466U SC: CA173005 SX: 174 DT: J
TI: Quenching of the translationally hot and thermalized imidogen(c 1.PI.) radicals by hydrazoic acid
AU: Umemoto, Hironobu / Kikuma, Jun / Tsunashima, Shigeru / Sato, Shin
LW: Tokyo Inst. Technol. DV: Dep. Appl. Phys. CI: Tokyo PC: 152
NA: Japan
JN: Chem. Phys. VO: 120 IS: 3 PP: 461-7 PY: 88 CO: CMPHC2
LA: Eng
KW: imidogen fluorescence quenching hydrogen azide
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(15)
CA: 108/20/176953A SC: CA174001 DT: J
TI: Formation of imidogen(c1.PI.) and (A3.PI.) in the photolysis of
ammonia, hydrazoic acid, and isocyanic acid at 121.6 nm
AU: Hikida, T. / Maruyama, Y. / Saito, Y. / Mori, Y.
LW: Tokyo Inst. Technol. DV: Dep. Chem. CI: Tokyo NA: Japan
JN: Chem. Phys. VO: 121 IS: 1 PP: 63-71 PY: 88 CO: CMPHC2
LA: Eng
KW: imidogen fluorescence photolysis nitrogen compd; ammonia photolysis excited imidogen prodn; isocyanic acid photolysis excited imidogen; hydrazoic acid photolysis excited imidogen
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(16)
CA: 108/24/212819X SC: CA173003 DT: J
TI: A simultaneous analysis of .nu.5, .nu.6, and the ground state of deuterated hydrazoic acid
AU: Bendtsen, J. / Hegelund, F. / Nicolaisen, F. M.
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 128 IS: 2 PP: 309-20 PY: 88 CO: JMOSA3
LA: Eng
KW: IR Raman deuterated hydroazoic acid; microwave deuterated hydrozoic acid; mol const deuterated hydrozoic acid
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(17)
CA: 108/26/227507T SC: CA167003 SX: 178 DT: J
TI: Kinetics of the oxidation of hydrogen azide (hydrazoic acid) by bis(2,2'-bipyridine)manganese(III) ions in aqueous perchlorate media
AU: Heyward, Malcolm P. / Wells, Cecil F.
LW: Univ. Birmingham DV: Dep. Chem. CI: Edgbaston/Birmingham PC: B15
2TT NA: UK
JN: J. Chem. Soc., Dalton Trans. IS: 5 PP: 1331-5 PY: 88 CO: JCDTBI
LA: Eng
KW: hydrozoic acid oxidn manganese bipyridine kinetics

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(1)
CA: 107/01/006720J SC: CA123004 DT: J
TI: Reaction of organoboranes with hydrazoic acid
AU: Kabalka, George W. / Henderson, David A. / Varma, Rajender S.
LW: Univ. Tennessee DV: Dep. Chem. CI: Knoxville ST: TN
PC: 37996-1600 NA: USA
JN: Organometallics VO: 6 IS: 6 PP: 1369-70 PY: 87 CO: ORGND7
LA: Eng
KW: organoborane amination hydrazoic acid; alkene hydroboration amination; aminoalkane; alkane amino

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(2)
CA: 107/01/007010Q SC: CA126009 SX: 101 105 DT: P
TI: Milbemycin derivatives, procedure for their preparation, and their use to control parasites
AU: Maienfisch, Peter / Riediker, Martin
NA: Switz.
JN: Ger. Offen. PP: 19 pp. PY: 870326 CO: GWXXBX LA: Ger
PAS: Ciba-Geigy A.-G.
KW: insecticide milbemycin prepn; acaricide milbemycin prepn; anthelmintic milbemycin prepn; parasiticide milbemycin prepn

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(3)
CA: 107/01/007018Y SC: CA127006 DT: J
TI: Synthesis and steric structure of 2-(2-furyl)acrylonitriles
AU: Kul'nevich, V. G. / Pavlov, P. A. / Krapivin, G. D.
LW: Krasnodar. Politekh. Inst. CI: Krasnodar NA: USSR
JN: Khim. Geterotsikl. Soedin. IS: 9 PP: 1169-71 PY: 86 CO: KGSSAQ
LA: Russ
KW: Schmidt reaction furanacrolein; furanacrylonitrile; acrylonitrile furyl

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(4)
CA: 107/02/016765S SC: CA178008 DT: J
TI: Properties of triazadienyl fluoride, N3F
AU: Gholivand, Khodayar / Schatte, Gabriele / Willner, Helge
LW: Univ. Hannover DV: Inst. Anorg. Chem. CI: Hannover PC: D-3000
NA: Fed. Rep. Ger.
JN: Inorg. Chem. VO: 26 IS: 13 PP: 2137-40 PY: 87 CO: INOCAJ
LA: Eng
KW: triazadienyl fluoride safe prepn property; safety triazadienyl fluoride prepn; azadienyl tri fluoride prepn spectra; fluorine azide prepn spectra

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(5)
CA: 107/09/077703S SC: CA128009 DT: J
TI: Utilization of 1,5-disubstituted tetrazole for preparation of furo[2,3-d]imidazole
AU: Stibranyi, L. / Peeva, M. / Sekretar, S.
LW: Slovak Tech. Univ. DV: Dep. Org. Chem. CI: Bratislava PC: CS-812
37 NA: Czech.
JN: Chem. Pap. VO: 40 IS: 5 PP: 673-8 PY: 86 CO: CHPAEG LA: Eng
KW: furoimidazolecarboxylate; furyltetrazole thermal decompn catalyst

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(6)
CA: 107/11/096724R SC: CA128010 SX: 101 163 DT: P
TI: Tetrazolylalkoxyphenols as allergy inhibitors and cardiovascular agents
AU: Carson, Matthew / LeMahieu, Ronald A.
NA: USA
JN: U.S. PP: 17 pp. PY: 870505 CO: USXXAM LA: Eng
PAS: Hoffmann-La Roche, Inc.
KW: tetrazolylalkoxyphenol pyridinylalkyl prepn allergy inhibitor; angina treatment pyridinylalkyltetrazolylalkoxyphenol prepn; cardiovascular agent pyridinylalkyltetrazolylalkoxyphenol prepn; allergy inhibitor pyridinylalkyltetrazolylalkoxyphenol prepn; pyridinylalkyltetrazolylalkoxyphenol prepn thromboxane synthase inhibitor; platelet activating factor antagonist pyridinylalkyltetrazolylalkoxyphenol

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(7)
CA: 107/14/123560T SC: CA173003 DT: J
TI: A simultaneous analysis of .nu.5, .nu.6, and the ground state of hydrazoic acid
AU: Hegelund, Flemming / Bendtsen, Joergen
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 124 IS: 2 PP: 306-16 PY: 87 CO: JMOSA3
LA: Eng
KW: hydrazoic acid IR rotational spectra

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(8)
CA: 107/15/134017X SC: CA125028 SX: 127 128 DT: J
TI: Retrodienic reactions. XX. Synthesis and flash thermolysis of Diels-Alder bis-adducts: generation of a functionalized triple bond by double cycloreversion
AU: Lasne, Marie Claire / Ripoll, Jean Louis
LW: Univ. Caen DV: Lab. Chim. Composes Thioorg. CI: Caen PC: F-14032
NA: Fr.
JN: Bull. Soc. Chim. Fr. IS: 5 PP: 766-70 PY: 86 CO: BSCFAS LA: Fr
KW: Diels Alder propiolate cyclopentadiene furan; ethenoanthracenecarboxylate Diels Alder anthracene; thermal retro Diels Alder; retrodienic reaction

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(9)
CA: 107/17/154589P SC: CA132007 DT: J
TI: Synthesis of some new cyano steroids
AU: Habib, Rubina / Husain, Mubarak / Husain, Mashkoor / Fazal, Abul
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202 001
NA: India
JN: Indian J. Chem., Sect. B VO: 25B IS: 9 PP: 905-9 PY: 86
CO: IJSBDB LA: Eng
KW: cyanocholestene; cholestene carbonitrile; hydrazoic acid reaction cyanocholestenone; azahomocholestenotetrazole; tetrazole azahomocholesteno

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(10)
CA: 107/22/207779J SC: CA173003 DT: J
TI: The pure rotational absorption spectrum of deuterated hydrazoic acid (DN3) in the far-infrared region
AU: Bendtsen, Joergen / Nicolaisen, Flemming M.
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 125 IS: 1 PP: 14-23 PY: 87 CO: JMOSA3
LA: Eng
KW: IR deuterated hydrazoic acid

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(1)
CA: 106/01/004618N SC: CA125023 SX: 127 DT: J
TI: 3-Chloroinden-1-ones and related compounds. 3-Chloro derivatives of 2-phenyl-, 1-naphthyl- and 2-pyridyl-1-indenones and their reactions
AU: Ismail, I. M. / El-Sharief, A. M. Sh. / Ammar, Y. A. / Amer, R. M.
LW: Al-Azhar Univ. DV: Fac. Sci. CI: Cairo NA: Egypt
JN: Egypt. J. Chem. VO: 27 IS: 2 PP: 229-39 PY: 85 CO: EGJCA3
LA: Eng
KW: chloroindenone prepn condensation amine phenol; sulfanilamide condensation chloroindenone; thio condensation chloroindenone; phenylchloroindenone condensation amine phenol; naphthylchloroindenone condensation amine phenol; pyridylchloroindenone condensation amine phenol; aniline chloroindenone condensation; hydrazoindan pyridyl

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(2)
CA: 106/06/039175T SC: CA167003 DT: J
TI: The fluorine atom + hydrazoic acid system: a chemical source for nitrogen monofluoride(a1.DELTA.)
AU: Habdas, J. / Wategaonkar, S. / Setser, D. W.
LW: Kansas State Univ. DV: Dep. Chem. CI: Manhattan ST: KS
PC: 66506 NA: USA
JN: J. Phys. Chem. VO: 91 IS: 2 PP: 451-8 PY: 87 CO: JPCHAX
LA: Eng
KW: fluorination reactor hydrazoic acid kinetics; nitrogen fluoride formation kinetics; dissocn energy hydrozoic acid

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(3)
CA: 106/07/049583P SC: CA123017 DT: J
TI: Derivatization of keto fatty acids. IV. Reaction of hydrazoic acid on long chain keto acid esters
AU: Ahmad, F. / Siddiqi, S. F. / Osman, S. M.
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202001
NA: India
JN: Fette, Seifen, Anstrichm. VO: 88 IS: 2 PP: 62-5 PY: 86
CO: FSASAX LA: Eng
KW: keto fatty ester reaction hydrazoic

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(4)
CA: 106/07/049886Q SC: CA126009 SX: 101 105 163 DT: P
TI: 13.beta.-Milbemycin derivatives for the control of ectoparasites and endoparasites in plants and animals
AU: Frei, Bruno / O'Sullivan, Anthony Cornelius D.
NA: Switz.
JN: Eur. Pat. Appl. PP: 68 pp. PY: 860611 CO: EPXXDW LA: Ger
PAS: Ciba-Geigy A.-G.
KW: anthelmintic milbemycin prepn; insecticide milbemycin prepn; acaricide milbemycin prepn; parasiticide milbemycin prepn

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(5)
CA: 106/07/049906W SC: CA127006 DT: J
TI: Synthesis of 5-substituted furannitriles and their reaction with hydrazine
AU: Pavlov, P. A. / Kul'nevich, V. G.
LW: Krasnodar. Politekh. Inst. CI: Krasnodar PC: 350700 NA: USSR
JN: Khim. Geterotsikl. Soedin. IS: 2 PP: 181-6 PY: 86 CO: KGSSAQ
LA: Russ
KW: furancarbonitrile hydrazine reaction; triazole difuryl; tetrazine difuryl

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(6)
CA: 106/10/075372P SC: CA173005 SX: 174 DT: J
TI: Collision-induced intersystem crossing imidogen (NH) (c1.PI.) .fwdarw. imidogen (NH) (A3.PI.)
AU: Rohrer, F. / Stuhl, F.
LW: Ruhr-Univ. CI: Bochum PC: D-4630 NA: Fed. Rep. Ger.
JN: J. Chem. Phys. VO: 86 IS: 1 PP: 226-33 PY: 87 CO: JCPSA6
LA: Eng
KW: collision induced intersystem crossing imidogen; fluorescence imidogen collision intersystem crossing

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(7)
CA: 106/11/084278Q SC: CA126009 SX: 101 105 DT: P
TI: 5-(Azolylacetoxy)milbemycins as ecto- and endoparasitic agents
AU: Sturm, Elmar / Maienfisch, Peter
NA: Switz.
JN: Eur. Pat. Appl. PP: 53 pp. PY: 860618 CO: EPXXDW LA: Ger
PAS: Ciba-Geigy A.-G.
KW: anthelmintic azolylacetoxymilbemycin prepn; insecticide azolylacetoxymilbemycin prepn; acaricide acolylacetoxymilbemycin prepn; parasiticide azolylacetoxymilbemycin prepn; milbemycin azolylacetoxy parasiticide prepn

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(8)
CA: 106/21/176273N SC: CA128010 DT: J
TI: Tetrazoles. 21. Reaction of benzonitrile with hydrazoate salts
AU: Titova, I. E. / Poplavskii, V. S. / Koldobskii, G. I. / Ostrovskii, V. A. / Nikolaev, V. D. / Erusalimskii, G. B.
LW: Leningr. Tekhnol. Inst. CI: Leningrad NA: USSR
JN: Khim. Geterotsikl. Soedin. IS: 8 PP: 1086-9 PY: 86 CO: KGSSAQ
LA: Russ
KW: tetrazole phenyl; alkylammonium azide

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(9)
CA: 106/25/213856C SC: CA128010 DT: J
TI: Photochemical formation of heteromethylenecyclopropanes. 16. 1,4,5-Substituted tetrazolium salts through methylation of 1,5-substituted tetrazoles and [3 + 2] cycloaddition of alkyl azides to nitrilium ions
AU: Quast, Helmut / Bieber, Lothar / Meichsner, Georg
LW: Univ. Wuerzburg DV: Inst. Org. Chem. CI: Wuerzburg PC: D-8700
NA: Fed. Rep. Ger.
JN: Liebigs Ann. Chem. IS: 5 PP: 469-75 PY: 87 CO: LACHDL LA: Ger
KW: tetrazole prepn methylation; tetrazolium substituted; cycloaddn nitrilium azide
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(10)
CA: 106/26/220277T SC: CA165005 SX: 173 DT: J
TI: The vibrational spectra, molecular structure and conformation of organic azides. Part IV. An ab initio study of hydrazoic acid, azidomethane, azidoethane, azidoethene and azidomethanal
AU: Nielsen, Claus J. / Sjogren, Carl E.
LW: Univ. Oslo DV: Dep. Chem. CI: Oslo PC: 0315 NA: Norway
JN: THEOCHEM VO: 35 IS: 3-4 PP: 361-79 PY: 87 CO: THEODJ LA: Eng
KW: hydrazoic acid structure vibration SCF; azidoethane structure vibration SCF; azidoethene structure vibration SCF; azidomethane structure vibration SCF; azide org structure vibration SCF; mol structure org azide; vibrational spectrum org azide; conformation org azide; force const org azide
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CAS105

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(1)
CA: 105/04/032127Z SC: CA173003 DT: J
TI: Infrared spectrum of the Coriolis coupled vibrations .nu.5 and .nu.6 of hydrazoic acid
AU: Bendtsen, Joergen / Hegelund, Flemming / Nicolaisen, Flemming M.
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 118 IS: 1 PP: 121-31 PY: 86 CO: JMOSA3
LA: Eng
KW: IR hydrozoic acid Coriolis coupling
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(2)
CA: 105/10/087866V SC: CA173005 DT: J
TI: Phase-shift studies of the quenching of imidogen (c1.PI.) state by hydrazoic acid, nitrogen monoxide, carbon monoxide, and carbon dioxide
AU: Sasaki, Shunichiro / Tsunashima, Shigeru / Sato, Shin
LW: Tokyo Inst. Technol. DV: Dep. Appl. Phys. CI: Tokyo PC: 152
NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 59 IS: 6 PP: 1671-4 PY: 86
CO: BCSJA8 LA: Eng
KW: imidogen quenching phase shift method
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(3)
CA: 105/14/115656X SC: CA136002 DT: J
TI: Determination of the sequence distribution and ionization constant of poly(acrylic acid-co-vinylamine) by carbon-13 NMR
AU: Chang, C. / Muccio, D. D. / St. Pierre, T.
LW: Univ. Alabama DV: Dep. Chem. CI: Birmingham ST: AL PC: 35294
NA: USA
JN: J. Polym. Sci., Polym. Symp. VO: 74 IS: In Honor Charles G.
Overberger His 65th Birthday PP: 17-30 PY: 86 CO: JPYCAQ LA: Eng
KW: hydrazoic acid reaction polyacrylic acid; acrylic acid vinylamine copolymer NMR; sequence distribution vinylamine copolymer NMR; ionization const vinylamine copolymer NMR
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(4)
CA: 105/18/161154E SC: CA173003 DT: J
TI: The pure rotational absorption spectrum of hydrazoic acid in the far-infrared region
AU: Bendtsen, Jorgen / Nicolaisen, Flemming M.
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Mol. Spectrosc. VO: 119 IS: 2 PP: 456-66 PY: 86 CO: JMOSA3
LA: Eng
KW: IR hydrazoic acid
---(5)
CA: 105/20/180858D SC: CA173005 SX: 174 DT: J
TI: Radiative decay and radiationless relaxation of imidogen/imidogen-d(a 1.DELTA.) isolated in rare gas matrixes
AU: Ramsthaler-Sommer, A. / Eberhardt, K. E. / Schurath, Ulrich
LW: Univ. Bonn DV: Inst. Phys. Chem. CI: Bonn PC: D-5300/1 NA: Fed.
Rep. Ger.
JN: J. Chem. Phys. VO: 85 IS: 7 PP: 3760-9 PY: 86 CO: JCPSA6
LA: Eng
KW: chemiluminescence imidogen photolysis hydrazoic acid; luminescence imidogen photolysis isocyanic acid
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(6)
CA: 105/21/190746E SC: CA126006 SX: 124 DT: J
TI: Preparation of vicinal azidohydrins by reaction of oxiranes with triethylaluminum/hydrogen azide
AU: Mereyala, Hari Babu / Frei, Bruno
LW: Eidg. Tech. Hochsch. DV: Lab. Org. Chem. CI: Zurich PC: CH-8092
NA: Switz.
JN: Helv. Chim. Acta VO: 69 IS: 2 PP: 415-18 PY: 86 CO: HCACAV
LA: Eng
KW: epoxide hydrazoic acid; azidohydrin epoxide
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(7)
CA: 105/21/190889D SC: CA127006 DT: P
TI: Trans-2-R-3-(5-Substituted-2-furyl)acrylonitriles
AU: Pavlov, P. A. / Kul'nevich, V. G. / Krapivin, G. D.
NA: USSR
JN: U.S.S.R. PY: 85 CO: URXXAF LA: Russ
PAS: Krasnodar Polytechnic Institute
KW: furylacrylonitrile; acrylonitrile furyl

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(8)
CA: 105/24/217851Z SC: CA178007 SX: 175 DT: J
TI: The crystal structure of (Mg(H2O)6)(N3)2
AU: Mautner, Franz A. / Krischner, Harald / Kratky, Christoph
LW: Tech. Univ. Graz DV: Inst. Phys. Theor. Chem. CI: Graz PC: A-8010
NA: Austria
JN: Z. Naturforsch., B: Anorg. Chem., Org. Chem. VO: 41B IS: 8
PP: 935-7 PY: 86 CO: ZNBAD2 LA: Ger
KW: magnesium aqua azide structure; crystal structure magnesium aqua azide

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CAS 104

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(1)
CA: 104/16/140958J SC: CA178007 DT: J
TI: The reduction of cluster-coordinated nitric oxide using molecular hydrogen. Synthesis and characterization of H4Os3(NH)(CO)8
AU: Smieja, Joanne A. / Gladfelter, Wayne L.
LW: Univ. Minnesota DV: Dep. Chem. CI: Minneapolis ST: MN PC: 55455
NA: USA
JN: J. Organomet. Chem. VO: 297 IS: 3 PP: 349-59 PY: 85
CO: JORCAI LA: Eng
KW: osmium carbonyl hydrido imido cluster; amido imido osmium cluster interconversion; triazenido osmium carbonyl hydrido reaction; nitrosyl hydrogen redn osmium cluster

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(2)
CA: 104/17/148282E SC: CA123018 SX: 129 DT: J
TI: Bis(azidocarbonyl)amine
AU: Gertsyuk, M. N. / Samarai, L. I.
LW: Inst. Org. Khim. CI: Kiev NA: USSR
JN: Zh. Org. Khim. VO: 21 IS: 7 PP: 1576-7 PY: 85 CO: ZORKAE
LA: Russ
KW: azidocarbonylamine prepn reaction triphenylphosphine; amine azidocarbonyl phosphazocarbonyl; hydrazoic acid reaction chloroformyl isocyanate; phosphine reaction azidocarbonylamine; phosphazocarbonylamine

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(3)
CA: 104/17/149242D SC: CA132007 DT: J
TI: Synthesis of some steroidal tetrazoles from stigmastane series
AU: Ahmad, M. S. / Ansari, Imtiaz A. / Ansari, Shamim A. / Moinuddin, G.
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202 001
NA: India
JN: Indian J. Chem., Sect. B VO: 24B IS: 6 PP: 664-6 PY: 85
CO: IJSBDB LA: Eng
KW: tetrazole steroidal; azahomostigmastenotetrazole; stigmastanone hydrazoic acid condensation

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(4)
CA: 104/22/195663Q SC: CA173001 SX: 122 DT: J
TI: The ab initio calculated molecular structures, force fields and vibrational frequencies of some organic azides
AU: Sjoegren, C. E. / Nielsen, C. J.
LW: Univ. Oslo DV: Dep. Chem. CI: Oslo PC: 0315 NA: Norway
JN: J. Mol. Struct. VO: 142, PP: 285-90 PY: 86 CO: JMOSB4 LA: Eng
KW: hydrazoic acid force const vibration; azidomethane force const vibration

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(5)
CA: 104/22/198683G SC: CA178001 DT: J
TI: Production of high purity cesium
AU: Blatter, Fritz / Schumacher, Ernst
LW: Univ. Bern DV: Inst. Inorg. Anal. Phys. Chem. CI: Bern
PC: CH-3012 NA: Switz.
JN: J. Less-Common Met. VO: 115 IS: 2 PP: 307-13 PY: 86
CO: JCOMAH LA: Eng
KW: cesium prepn azide thermolysis

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(6)
CA: 104/23/206536D SC: CA122008 DT: J
TI: Reactions of imide radicals. IV. Photolysis of hydrazoic acid in the presence of methane at 313 nm
AU: Kodama, Sukeya
LW: Univ. Osaka Prefect. DV: Coll. Eng. CI: Osaka PC: 591 NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 58 IS: 10 PP: 2891-9 PY: 85
CO: BCSJA8 LA: Eng
KW: photolysis hydrazoic acid kinetics mechanism; methane photolysis hydrazoic acid

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(7)
CA: 104/23/206537E SC: CA122008 DT: J
TI: Reactions of imide radicals. V. Photolysis of hydrazoic acid in the presence of propane at 313 nm
AU: Kodama, Sukeya
LW: Univ. Osaka Prefect. DV: Coll. Eng. CI: Osaka PC: 591 NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 58 IS: 10 PP: 2900-10 PY: 85
CO: BCSJA8 LA: Eng
KW: photolysis hydrazoic acid mechanism kinetics; propane hydrazoic acid photolysis

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(8)
CA: 104/23/207627W SC: CA134002 SX: 127 DT: J
TI: A facile cleavage of oxirane with hydrazoic acid in DMF. A new route to chiral .beta.-hydroxy-.alpha.-amino acids
AU: Saito, Seiki / Bunya, Norio / Inaba, Masami / Moriwake, Toshio / Torii, Sigeru
LW: Okayama Univ. DV: Sch. Eng. CI: Tsushima PC: 700 NA: Japan
JN: Tetrahedron Lett. VO: 26 IS: 43 PP: 5309-12 PY: 85 CO: TELEAY
LA: Eng
KW: hydroxy amino acid; hydroxyaspartic acid; aspartic acid hydroxy; hydroxymethylserine; serine hydroxymethyl; ring cleavage oxirane hydrazoic acid

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(9)
CA: 104/25/224903A SC: CA128010 SX: 101 163 DT: P
TI: Tetrazole derivatives and antiulcer composition containing them
AU: Uchida, Minoru / Nishi, Takao / Nakagawa, Kazuyuki
NA: Japan
JN: U.S. PP: 29 pp. Cont.-in-part of U.S. Ser. No. 124,710, abandoned.
PY: 85 CO: USXXAM LA: Eng
PAS: Otsuka Pharmaceutical Co., Ltd.
KW: tetrazole deriv prepn antiulcer; ulcer inhibitor tetrazole prepn; inflammation inhibitor tetrazole prepn
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CAS 103

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(1)
CA: 103/04/030183Z SC: CA174001 SX: 173 DT: J
TI: Formation of imidogen(A3.PI.i) in the flash photolysis of hydrogen azide (HN3) at 121.6 nm. Role of molecular nitrogen triplet states
AU: Maruyama, Y. / Hikida, T. / Mori, Y.
LW: Tokyo Inst. Technol. DV: Dep. Chem. CI: Tokyo NA: Japan
JN: Chem. Phys. Lett. VO: 116 IS: 5 PP: 371-3 PY: 85 CO: CHPLBC
LA: Eng
KW: photolysis hydrazoic acid fluorescence imidogen
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(2)
CA: 103/17/142381U SC: CA134003 SX: 101 115 128 DT: P
TI: Oxazole derivatives
AU: Kitaura, Yoshihiko / Kakaguchi, Osamu / Hemmi, Keiji / Acatani, Matsuhiko / Takeno, Hidekazu / Okada, Satashi / Tanaka, Hirakazu / Hashimoto, Masashi / Kuroda, Yashio / et al.
NA: Japan
JN: U.S. PP: 157 pp. Division of U.S. 4,349,466. PY: 84 CO: USXXAM
LA: Eng
PAS: Fujisawa Pharmaceutical Co., Ltd.
KW: oxazole deriv peptide synthesis; immune adjuvant peptide; mitogenic peptide; bactericide peptide; anticancer peptide; aminopimelic acid peptide
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(3)
CA: 103/23/195912Z SC: CA126003 SX: 101 107 DT: J
TI: Arachidonate epoxygenase: inhibitors and metabolite analogs
AU: Falck, J. R. / Manna, Sukumar / Viala, Jacques / Siddhanta, Arup K. / Moustakis, Christine A. / Capdevila, Jorge
LW: Univ. Texas DV: Health Sci. Cent. CI: Dallas ST: TX PC: 75235
NA: USA
JN: Tetrahedron Lett. VO: 26 IS: 19 PP: 2287-90 PY: 85 CO: TELEAY
LA: Eng
KW: epoxygenase inhibitor hetero eicosapolyenoate; aziridine epoxygenase inhibitor; episulfide epoxygenase inhibitor; arachidonate epoxygenase inhibitor
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(4)
CA: 103/26/221757Z SC: CA167003 SX: 168 178 DT: J
TI: Use of aqueous DMSO in resolving 'proton ambiguity' in the formation of monocomplexes of iron(III)
AU: Krishnamoorthy, G. / Prabhananda, B. S.
LW: Tata Inst. Fundam. Res. DV: Chem. Phys. Group CI: Bombay PC: 400
005 NA: India
JN: Proc. - Indian Acad. Sci., Chem. Sci. VO: 95 IS: 4 PP: 337-44
PY: 85 CO: PIAADM LA: Eng
KW: iron azide thiocyanide formation aq DMSO; hydrazoic acid dissocn aq DMSO; aquo iron dissocn aq DMSO; cyanic acid dissocn aq DMSO

CAS102

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(1)
CA: 102/01/006354Q SC: CA128014 DT: J
TI: Compounds with Urotropin structure, LX. Orthooxalic and orthocarbonic acid derivatives with adamantane structure
AU: Stetter, Hermann / Hunds, Artur
LW: Tech. Hochsch. Aachen DV: Inst. Org. Chem. CI: Aachen PC: D-5100
NA: Fed. Rep. Ger.
JN: Liebigs Ann. Chem. IS: 9 PP: 1577-90 PY: 84 CO: LACHDL LA: Ger
KW: orthooxalate deriv adamantane structure; orthocarbonate deriv adamantane structure; adamantane analog; Urotropin analog; oxaadamantane tri; bromotrioxaadamantane; aminooxadamantane
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(2)
CA: 102/02/014475V SC: CA173005 SX: 174 DT: J
TI: Imidogen(a1.DELTA. .fwdarw. X3.SIGMA.-) emission from the gas-phase photolysis of hydrazoic acid (HN3)
AU: Rohrer, F. / Stuhl, F.
LW: Ruhr Univ. CI: Bochum PC: D-4630 NA: Fed. Rep. Ger.
JN: Chem. Phys. Lett. VO: 111 IS: 3 PP: 234-7 PY: 84 CO: CHPLBC
LA: Eng
KW: luminescence imidogen photolysis hydrazoic acid
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(3)
CA: 102/14/121966C SC: CA172002 DT: J
TI: Catalytic currents in the polarography of the molybdenum(VI)-hydrazoic acid system
AU: Viste, Arlen / Klopf, Lori / Mundhenke, Jeffrey A.
LW: Augustana Coll. DV: Dep. Chem. CI: Sioux Falls ST: SD PC: 57197
NA: USA
JN: Proc. S. D. Acad. Sci. VO: 63, PP: 22-6 PY: 84 CO: PSDAA2
LA: Eng
KW: polarog molybdenum hydrazoic acid system; redn polarog molybdenum hydrazoic acid; electroredn molybdenum hydrazoic acid
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(4)
CA: 102/18/155568Q SC: CA167003 SX: 151 DT: J
TI: Study of hydrazoic acid detonation near limits
AU: Bazhenova, T. V. / Gvozdeva, L. G. / Fokeev, V. P. / Paillard, C. / Combourieu, J. / Dupre, G. / Lisbet, R.
CI: Moscow NA: USSR
JN: Fiz. Goreniya Vzryva VO: 21 IS: 1 PP: 120-4 PY: 85 CO: FGVZA7
LA: Russ
KW: hydrozoic acid detonation factor affecting
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(5)
CA: 102/19/166622D SC: CA127016 DT: P
TI: Metabolite
AU: McQuinn, Roy L. / Bronn, William R. / Banitt, Elden H.
NA: USA
JN: U.S. PP: 5 pp. PY: 85 CO: USXXAM LA: Eng
PAS: Riker Laboratories, Inc.
KW: piperidylmethylbenzamide metabolite; benzamide piperidylmethyl
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(6)
CA: 102/23/203866J SC: CA127006 DT: P
TI: 5-Substituted 2-cyanofurans
AU: Pavlov, P. A. / Kul'nevich, V. G.
NA: USSR
JN: U.S.S.R. PY: 84 CO: URXXAF LA: Russ
PAS: Krasnodar Polytechnic Institute
KW: furancarbonitrile; furfural hydrazoic acid

CAS 101

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(1)
CA: 101/01/006947Q SC: CA127002 SX: 128 DT: J
TI: Synthesis of .alpha.,.beta.-epoxyacyl azides and their rearrangement to epoxy isocyanates and 3- and 4-oxazolin-2-ones
AU: Lemmens, Jacques M. / Blommerde, Willem W. J. M. / Thijs, Lambertus / Zwanenburg, Binne
LW: Univ. Nijmegen DV: Dep. Org. Chem. CI: Nijmegen PC: 6525 ED
NA: Neth.
JN: J. Org. Chem. VO: 49 IS: 12 PP: 2231-5 PY: 84 CO: JOCEAH
LA: Eng
KW: epoxyacyl azide prepn rearrangement; isocyanate epoxy; oxazolinone
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(2)
CA: 101/05/038302S SC: CA127011 SX: 125 DT: J
TI: Synthesis of 1-azaazulene and benz(a)azulene by carbene rearrangement
AU: Wentrup, Curt / Becker, Juergen
LW: Philipps-Univ. Marburg DV: Dep. Chem. CI: Marburg PC: D-3550
NA: Fed. Rep. Ger.
JN: J. Am. Chem. Soc. VO: 106 IS: 12 PP: 3705-6 PY: 84 CO: JACSAT
LA: Eng
KW: azaazulene; benzazulene; carbene rearrangement indolyltetrazole fluorenyltetrazole; pyrolysis indolyltetrazole fluorenyltetrazole
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(3)
CA: 101/08/063495Q SC: CA174001 DT: J
TI: Argon fluoride (193 nm) laser photolysis of HN3, methylamine (CH3NH2), and hydrazine (N2H4): formation of excited imidogen (NH) radicals
AU: Haak, H. K. / Stuhl, F.
LW: Ruhr Univ. CI: Bochum PC: D-4630 NA: Fed. Rep. Ger.
JN: J. Phys. Chem. VO: 88 IS: 16 PP: 3627-33 PY: 84 CO: JPCHAX
LA: Eng
KW: laser photolysis hydrazoic acid methylamine; excited imidogen photoprodn; hydrazine laser photolysis
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(4)
CA: 101/08/063506U SC: CA174001 SX: 173 DT: J
TI: Radiative lifetime of metastable imidogen(NH)(b1.SIGMA.+)
AU: Blumenstein, U. / Rohrer, F. / Stuhl, F.
LW: Ruhr Univ. CI: Bochum PC: D-4630 NA: Fed. Rep. Ger.
JN: Chem. Phys. Lett. VO: 107 IS: 3 PP: 347-50 PY: 84 CO: CHPLBC
LA: Eng
KW: radiative lifetime metastable imidogen; photolysis ammonia hydrazoic acid imidogen
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(5)
CA: 101/12/098512V SC: CA167003 DT: J
TI: Ionization in the decomposition of hydrazoic acid in shock waves
AU: Aravin, G. S. / Karasevich, Yu. K. / Vlasov, P. A.
LW: Inst. Khim. Fiz. CI: Moscow NA: USSR
JN: Khim. Fiz. IS: 10 PP: 1360-7 PY: 82 CO: KHFID9 LA: Russ
KW: ionization mechanism hydrazoic acid dissocn; shock wave decompn hydrazoic acid
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(6)
CA: 101/13/110634W SC: CA126005 SX: 110 DT: P
TI: .beta.-lactam compounds
AU: Southgate, Robert / Corbett, David Francis / Coulton, Steven
NA: UK
JN: Eur. Pat. Appl. PP: 93 pp. PY: 84 CO: EPXXDW LA: Eng
PAS: Beecham Group PLC
KW: aminopropenylthiocarbapenem prepn bactericide; carbapenem aminopropenylthio prepn bactericide
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(7)
CA: 101/21/190641J SC: CA121002 DT: J
TI: Synthetic methods. 19. Lewis acid catalyzed conversion of alkenes and alcohols to azides
AU: Hassner, Alfred / Fibiger, Richard / Andisik, Donald
LW: State Univ. New York DV: Dep. Chem. CI: Binghamton ST: NY
PC: 13901 NA: USA
JN: J. Org. Chem. VO: 49 IS: 22 PP: 4237-44 PY: 84 CO: JOCEAH
LA: Eng
KW: hydrazoic acid addn reaction; alkene addn hydrazoic acid; enol ether addn hydrazoic acid; alc reaction hydrazoic acid; azide alkyl; alkyl azide; Lewis acid hydrazoic acid addn

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(8)
CA: 101/21/190722M SC: CA122003 SX: 175 DT: J
TI: Study of the mechanism of acid-catalyzed decomposition of tertiary azides
AU: Adam, Gerard / Andrieux, Jean / Plat, Michel / Viossat, Bernard / Rodier, Noel
LW: Univ. Paris XI DV: Cent. Etud. Pharm. CI: Chatenay Malabry NA: Fr.
JN: Bull. Soc. Chim. Fr. IS: 3-4, Pt. 2 PP: 101-8 PY: 84 CO: BSCFAS
LA: Fr
KW: crystal structure azidobenzocyclobutabenzocycloheptene; mol structure azidobenzocyclobutabenzocycloheptene; conformation azidobenzocyclobutabenzocycloheptene; benzocyclobutabenzocycloheptenyl azide ring expansion mechanism; Schmidt reaction tertiary alc; steric effect Schmidt reaction; electronic effect Schmidt reaction

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(9)
CA: 101/21/191520F SC: CA126005 SX: 110 163 DT: P
TI: 6-Hydroxyalkylpenem compounds
AU: Lang, Marc
NA: Switz.
JN: Eur. Pat. Appl. PP: 94 pp. PY: 84 CO: EPXXDW LA: Ger
PAS: Ciba-Geigy A.-G.
KW: aminoalkylpenem prepn bactericide; penem aminoalkyl prepn bactericide

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CAS 100

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(1)
CA: 100/01/006297G SC: CA127017 DT: J
TI: New dihydroquinolines synthesis via tertiary azides
AU: Adam, Gerard / Andrieux, Jean / Plat, Michel M.
LW: Univ. Paris XI DV: Fac. Pharm. CI: Chatenay-Malabry PC: 92290
NA: Fr.
JN: Tetrahedron Lett. VO: 24 IS: 34 PP: 3609-12 PY: 83 CO: TELEAY
LA: Eng
KW: indanol Schmidt; ring enlargement indanol hydrazoic acid; quinoline dihydro

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(2)
CA: 100/02/014752S SC: CA173005 SX: 174 DT: J
TI: Spectrum and lifetime of imidogen(a1.DELTA. .fwdarw. X3.SIGMA.-) in inert gas matrixes
AU: Esser, H. / Langen, J. / Schurath, U.
LW: Univ. Bonn DV: Inst. Phys. Chem. CI: Bonn PC: D-5300/1 NA: Fed. Rep. Ger.
JN: Ber. Bunsen-Ges. Phys. Chem. VO: 87 IS: 8 PP: 636-43 PY: 83
CO: BBPCAX LA: Eng
KW: fluorescence imidogen inert matrix

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(3)
CA: 100/21/173982H SC: CA122004 DT: J
TI: Studies on the exchange reaction between amide hydrogen atom and acyl group in the systems caprolactam-N-acylcaprolactam
AU: Ostaszewski, B. J. / Reimschuessel, W. / Wlodarczyk, M.
LW: Tech. Univ. DV: Inst. Polym. CI: Lodz NA: Pol.
JN: Acta Polym. VO: 34 IS: 11-12 PP: 751-3 PY: 83 CO: ACPODY
LA: Eng
KW: exchange reaction acylcaprolactam kinetics; caprolactam acyl group exchange

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(4)
CA: 100/23/191802D SC: CA128010 DT: J
TI: Synthesis of tetrazole from .alpha., .beta.-unsaturated carbonyl fatty acid
AU: Mustafa, Jamal / Ahmad, M. S., Jr. / Rauf, A. / Osman, S. M.
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh PC: 202001
NA: India
JN: JAOCS, J. Am. Oil Chem. Soc. VO: 61 IS: 3 PP: 555-8 PY: 84
CO: JJASDH LA: Eng
KW: tetrazolepropenoate tetradecyl; octadecenoate oxo reaction hydrazoic acid; hydrazoic acid cyclization oxooctadecenoate

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(5)
CA: 100/24/198372X SC: CA167003 DT: J
TI: Interpretation of kinetic data for the reaction of azide with aquapentaamminechromium(III) and the reverse (aquation) reaction
AU: Castillo-Blum, Silvia / Sykes, A. Geoffrey
LW: Univ. Newcastle upon Tyne DV: Dep. Inorg. Chem. CI: Newcastle upon Tyne PC: NE1 7RU NA: UK
JN: Inorg. Chem. VO: 23 IS: 8 PP: 1049-52 PY: 84 CO: INOCAJ
LA: Eng
KW: deaquation chromium ammine azide kinetics; aquation chromium ammine azide kinetics

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(6)
CA: 100/25/208917V SC: CA122008 DT: J
TI: Kinetics of the thermal decomposition of benzenesulfinyl azide
AU: Maricich, Tom J. / Angeletakis, Christos N. / Mjanger, Ragnvald
LW: California State Univ. DV: Dep. Chem. CI: Long Beach ST: CA
PC: 90840 NA: USA
JN: J. Org. Chem. VO: 49 IS: 11 PP: 1928-31 PY: 84 CO: JOCEAH
LA: Eng
KW: benzenesulfinyl azide thermolysis kinetics
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(7)
CA: 100/26/218201W SC: CA173003 DT: J
TI: Raman and infrared rotation-vibration spectra of the .nu.1 band of hydrazoic acid (D14N3)
AU: Bendtsen, Joergen
LW: Univ. Aarhus DV: Dep. Chem. CI: Aarhus PC: DK-8000 NA: Den.
JN: J. Raman Spectrosc. VO: 15 IS: 2 PP: 113-19 PY: 84 CO: JRSPAF
LA: Eng
KW: IR Raman deuterated hydrazoic acid

CAS 99

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(1)
CA: 099/05/038668F SC: CA130020 DT: J
TI: Gibberellins - LXXXIX. Synthesis of gibberellin A55 and A57 as well as 1-oxygenated gibberellin A5 and A20 analogs - a new principle for the regioselective transposition of an allylic alcohol function
AU: Voigt, B. / Adam, G.
LW: Acad. Sci. GDR DV: Inst. Plant Biochem. CI: Halle/Saale PC: 4010
NA: Ger. Dem. Rep.
JN: Tetrahedron VO: 39 IS: 3 PP: 449-53 PY: 83 CO: TETRAB
LA: Eng
KW: gibberellin A5 A20 A55 A57
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(2)
CA: 099/07/053085G SC: CA123018 DT: J
TI: On the synthesis of N-sulfonyl substituted imidoyl azides
AU: L'abbe, Gerrit / Van Asch, Alex / Godts, Francoise
LW: Katholieke Univ. Leuven DV: Dep. Scheikunde CI: Heverlee
PC: B-3030 NA: Belg.
JN: Bull. Soc. Chim. Belg. VO: 92 IS: 1 PP: 79-80 PY: 83
CO: BSCBAG LA: Eng
KW: sulfonyl imidoyl azide prepn fragmentation
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(3)
CA: 099/07/054092U SC: CA133004 DT: J
TI: Preparation of 6- and 6-deoxylactose
AU: Jezo, I. / Zemek, J.
LW: Slov. Akad. Sci. DV: Cent. Chem. Res. CI: Bratislava PC: 842 36
NA: Czech.
JN: Chem. Zvesti VO: 37 IS: 1 PP: 83-90 PY: 83 CO: CHZVAN
LA: Ger
KW: deoxylactose
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(4)
CA: 099/08/058894E SC: CA163006 SX: 128 DT: P
TI: Antiulcer pharmaceuticals containing tetrazole derivatives
NA: Japan
JN: Jpn. Kokai Tokkyo Koho PP: 29 pp. PY: 830225 CO: JKXXAF
LA: Japan
PAS: Otsuka Pharmaceutical Co., Ltd.
KW: antiulcer tetrazole deriv prepn pharmaceutical
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(5)
CA: 099/09/070105F SC: CA122012 DT: J
TI: Onium ions. 26. Aminodiazonium ions: preparation, proton, carbon-13, and nitrogen-15 NMR structural studies, and electrophilic amination of aromatics
AU: Olah, George A.
LW: Univ. South. California DV: Hydrocarbon Res. Inst. CI: Los Angeles
ST: CA PC: 90098 NA: USA
JN: J. Am. Chem. Soc. VO: 105 IS: 17 PP: 5657-60 PY: 83
CO: JACSAT LA: Eng
KW: protonation alkyl azide regiochem; proton NMR protonated hydrazoic acid; carbon NMR protonated hydrazoic acid; nitrogen NMR protonated hydrazoic acid; MO NMR protonated hydrazoic acid; thermodn protonated hydrazoic acid; electrophilic arom substitution aminodiazonium; amination arom aminodiazonium
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(6)
CA: 099/16/128949C SC: CA167004 SX: 122 165 DT: J
TI: Molecular structure and chemical reactions
AU: Fueno, Takayuki
LW: Osaka Univ. DV: Fac. Eng. Sci. CI: Osaka NA: Japan
JN: Seisan to Gijutsu VO: 35 IS: 2 PP: 44-9 PY: 83 CO: STOGDG
LA: Japan
KW: diradical structure reactivity quantum calcn; mol structure calcn reaction mechanism
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(7)
CA: 099/16/131230S SC: CA174001 SX: 167 DT: J
TI: Reactions of imidogen (NH) radicals. I. Photolysis of hydrozoic acid vapor at 313 nm
AU: Kodama, Sukeya
LW: Univ. Osaka Prefect. DV: Coll. Eng. CI: Sakai PC: 591 NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 56 IS: 8 PP: 2348-54 PY: 83
CO: BCSJA8 LA: Eng
KW: hydrazoic acid xenon photolysis; imidogen radical reaction
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(8)
CA: 099/16/131231T SC: CA174001 SX: 167 DT: J
TI: Reactions of imidogen (NH) radicals. III. Photolysis of hydrazoic acid in the presence of ethane at 313 nm
AU: Kodama, Sukeya
LW: Univ. Osaka Prefect. DV: Coll. Eng. CI: Sakai PC: 591 NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 56 IS: 8 PP: 2363-70 PY: 83
CO: BCSJA8 LA: Eng
KW: hydrazoic acid ethylene photolysis; imidogen radical reaction
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(9)
CA: 099/18/149013H SC: CA173005 SX: 174 DT: J
TI: Formation of imidogen radical (NH)(A3.PI., c1.PI.) by electron-impact dissociation of hydrazoic acid (HN3)
AU: Tokue, Ikuo / Ito, Yoshio
LW: Niigata Univ. DV: Fac. Sci. CI: Niigata PC: 950-21 NA: Japan
JN: Chem. Phys. VO: 79 IS: 3 PP: 383-9 PY: 83 CO: CMPHC2 LA: Eng
KW: luminescence imidogen radiolysis hydrazoic acid; rotational vibrational population imidogen
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(10)
CA: 099/18/149456E SC: CA174001 SX: 167 DT: J
TI: Reactions of imidogen (NH) radicals. II. Photolysis of hydrazoic acid in the presence of ethane at 313 nm
AU: Kodama, Sukeya
LW: Univ. Osaka Prefect. DV: Coll. Eng. CI: Sakai PC: 591 NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 56 IS: 8 PP: 2355-62 PY: 83
CO: BCSJA8 LA: Eng
KW: hydrazoic acid ethane photolysis; imidogen radical reaction
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(11)
CA: 099/19/158436A SC: CA128010 DT: P
TI: 5-Tetrazolyl ketones
AU: Zhulin, V. M. / Zavarzin, I. V. / Krayushkin, M. M. / Luk'yanov, O. A. / Yarovenko, V. N.
NA: USSR
JN: U.S.S.R. PY: 830523 CO: URXXAF LA: Russ
PAS: Zelinskii, N. D., Institute of Organic Chemistry
KW: acyl cyanide cyclocondensation azide; acyltetrazole; tetrazole acetyl benzoyl
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(12)
CA: 099/21/175770X SC: CA128010 SX: 101 DT: P
TI: Carbostyrils
NA: Japan
JN: Jpn. Kokai Tokkyo Koho PP: 10 pp. PY: 830409 CO: JKXXAF
LA: Japan
PAS: Otsuka Pharmaceutical Co., Ltd.
KW: blood platelet aggregation inhibitor carbostyril; etherification hydroxycarbostyril chlorobutyltetrazole
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(13)
CA: 099/25/212778D SC: CA131005 DT: J
TI: A biogenetic-like synthesis of perloline, 6-(3,4-dimethoxyphenyl)-5-hydroxy-5,6-dihydrobenzo(c)(2,7)naphthyridin-4 (3H)-one
AU: Duong, Thach / Prager, Rolf H. / Were, Stephen T.
LW: Univ. Adelaide DV: Dep. Org. Chem. CI: Adelaide PC: 5001
NA: Australia
JN: Aust. J. Chem. VO: 36 IS: 7 PP: 1431-40 PY: 83 CO: AJCHAS
LA: Eng
KW: dehydroperloline; indenopyridinone phenyl rearrangement hydrazoic acid; benzonaphthyridinone alkaloid; perloline dehydro
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CAS 98

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(1)
CA: 098/01/004553D SC: CA128010 SX: 101 DT: P
TI: Tetrazole derivatives
NA: Japan
JN: Jpn. Kokai Tokkyo Koho PP: 17 pp. PY: 820903 CO: JKXXAF
LA: Japan
PAS: Otsuka Pharmaceutical Co., Ltd.
KW: antiulcer tetrazole; cyclocondensation hydrazoic acid acylaminoalkanoate
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(2)
CA: 098/05/034805E SC: CA130030 DT: J
TI: Aza triterpenes. III. Action of excess hydrazoic acid-boron trifluoride etherate on 3-oxo pentacyclic triterpenes
AU: Ramaiah, T. Sundara / Ramraj, S. K. / Govardhan, C. / Rao, V. Vishwanath
LW: Nizam Coll. DV: Dep. Chem. CI: Hyderabad PC: 500 001 NA: India
JN: J. Indian Chem. Soc. VO: 59 IS: 8 PP: 975-6 PY: 82 CO: JICSAH
LA: Eng
KW: ring cleavage oxopentacyclic triterpene; Schmidt reaction oxopentacyclic triterpene; azatriterpene; hydrazoic acid boron trifluoride triterpene
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(3)
CA: 098/08/062567X SC: CA173005 DT: T
TI: Chemical production of excited nitrogen fluoride (NF)
AU: Coombe, R. D. / Patel, D. / Pritt, A. T., Jr. / Wodarczyk, F. J.
LW: Rockwell Int. DV: Sci. Cent. CI: Thousand Oaks ST: CA NA: USA
JN: Report IS: Order No. AD-A118017, PP: 126 pp. PY: 82 CO: D8REP4
LA: Eng
KW: nitrogen fluoride singlet delta prodn; flame nitrogen halide excited state
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(4)
CA: 098/10/082727C SC: CA178007 SX: 175 DT: J
TI: An asymmetric triply-bridged molybdenum(V) complex with bridging azido-ligand. The structures of (Mo2O2(.mu.-N3)(S(CH2)3S)3)- and its precursor (MoO(S(CH2)3S)2)-
AU: Bishop, Peter T. / Dilworth, Jonathan R. / Hutchinson, John / Zubieta, Jon A.
LW: Univ. Sussex DV: ARC Unit Nitrogen Fixation CI: Brighton PC: BN1 9RQ NA: UK
JN: J. Chem. Soc., Chem. Commun. IS: 18 PP: 1052-3 PY: 82
CO: JCCCAT LA: Eng
KW: molybdenum azido dithiolato complex structure; crystal structure molybdenum azido complex

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(5)
CA: 098/11/089140Q SC: CA127017 SX: 175 DT: J
TI: Reactions of heterocyclic onium salts with electron-rich multiple bond systems
AU: Scherowsky, Guenther / Pickardt, Joachim
LW: Tech. Univ. Berlin DV: Inst. Org. Chem. CI: Berlin PC: D-1000/12
NA: Fed. Rep. Ger.
JN: Chem. Ber. VO: 116 IS: 1 PP: 186-96 PY: 83 CO: CHBEAM
LA: Ger
KW: quinolinium reaction ketene acetal propynamine; triazolium cycloaddn propynamine; tetrazolium deprotonation cycloelimination dealkylation propynamine; crystal structure quinoline cyanine

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(6)
CA: 098/12/097746G SC: CA172002 SX: 169 DT: J
TI: Thermodynamics of a silver, silver azide electrode in water and water + dioxane at different temperatures
AU: Das, Rebati C. / Misra, Mihir K. / Nanda, Bata K.
LW: Univ. Coll. Eng. DV: Dep. Chem. CI: Burla PC: 768 018 NA: India
JN: J. Chem. Soc., Faraday Trans. 1 VO: 78 IS: 12 PP: 3485-92
PY: 82 CO: JCFTAR LA: Eng
KW: silver azide electrode thermodn; potential electrode silver azide; hydrazoic acid transfer thermodn

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(7)
CA: 098/12/098295W SC: CA173006 DT: J
TI: Vacuum ultraviolet photoelectron spectroscopy of transient species. Part 15. The trinitrogen(X 2.PI.) radical
AU: Dyke, J. M. / Jonathan, N. B. H. / Lewis, A. E. / Morris, A.
LW: Univ. Southampton DV: Dep. Chem. CI: Southampton PC: SO9 5NH
NA: UK
JN: Mol. Phys. VO: 47 IS: 5 PP: 1231-40 PY: 82 CO: MOPHAM
LA: Eng
KW: fluorine hydrazoic acid reaction pathway; UV photoelectron spectra nitrogen radical

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(8)
CA: 098/13/106997U SC: CA125019 SX: 101 163 DT: P
TI: Composition containing substituted isobutyranilide with antiandrogenic activity
AU: Neri, Rudolph O. / Topliss, John G.
NA: Finland
JN: Finn. PP: 28 pp. PY: 820730 CO: FIXXAP LA: Swed
PAS: Essex Laakkeet Oy
KW: isobutyranilide prepn antiandrogenic

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(9)
CA: 098/14/114466K SC: CA167003 SX: 165 173 DT: J
TI: Studies on the reaction N + N3 ,fwdarw. N2(B3.PI.g) + N2(X1.SIGMA.g+)
AU: Yamasaki, K. / Fueno, T. / Kajimoto, O.
LW: Osaka Univ. DV: Fac. Eng. Sci. CI: Toyonaka PC: 560 NA: Japan
JN: Chem. Phys. Lett. VO: 94 IS: 4 PP: 425-9 PY: 83 CO: CHPLBC
LA: Eng
KW: nitrogen atom azide radical kinetics; chlorine atom reaction hydrazoic acid; decompn azide radical kinetics

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(10)
CA: 098/16/128711Y SC: CA150004 DT: C
TI: Effect of the structure of a detonation wave on the rate of heat transfer to the wall
AU: Paillard, C. / Dupre, G. / Lisbet, R. / Combourieu, J.
LW: CNRS DV: Cent. Rech. Chim. Combust. Hautes Temp. CI: Orleans
PC: 45045 NA: Fr.
JN: Colloq. Int. Berthelot-Vieille-Mallard-Le Chatelier, (Actes), 1st
VO: 2, PP: 449-54 PY: 81 CO: 48YWAO LA: Fr
PU: Sect. Fr. Combust. Inst.
KW: detonation pressure wave heat transfer

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(11)
CA: 098/16/132951U SC: CA167003 DT: J
TI: Decomposition of hydrazoic acid in nitric acid
AU: Maya, Brian M. / Stedman, Geoffrey
LW: Univ. Coll. Swansea DV: Chem. Dep. CI: Swansea PC: SA2 8PP
NA: UK
JN: J. Chem. Soc., Dalton Trans. IS: 2 PP: 257-9 PY: 83 CO: JCDTBI
LA: Eng
KW: hydrazoic acid oxidn kinetics; nitric acid oxidn hydrazoic acid; safety hydrazoic acid oxidn

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CAS 97

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(1)
CA: 097/02/012022Z SC: CA165003 DT: J
TI: Comparative theoretical study of the dissociation process of the isoelectronic molecules boron carbonyl (BH3CO), ethenone (CH2CO), isocyanic acid (HNCO), carbon dioxide and diazoborane (BH3N2), diazomethane (CH2N2), hydrazoic acid and nitrous oxide
AU: Breulet, Jacques / Lievin, Jacques
LW: Univ. Libre de Bruxelles DV: Fac. Sci. CI: Brussels PC: B-1050
NA: Belg.
JN: Theor. Chim. Acta VO: 61 IS: 1 PP: 59-72 PY: 82 CO: TCHAAM
LA: Eng
KW: isoelectronic mol dissocn energy; borane carbonyl dissocn MO; ethenone dissocn MO; isocyanic acid dissocn MO; carbon dioxide dissocn MO; diazoborane dissocn MO; diazomethane dissocn MO

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(2)
CA: 097/05/038892H SC: CA128010 DT: J
TI: A study of the reaction of 2-pyridyl isothiocyanate with azoimide
AU: Marchalin, Miroslav / Povazanec, Frantisek / Martvon, Augustin
LW: Res. Inst. Drugs CI: Bratislava PC: 811 04 NA: Czech.
JN: Collect. Czech. Chem. Commun. VO: 47 IS: 3 PP: 877-83 PY: 82
CO: CCCCAK LA: Eng
KW: pyridyl isothiocyanate hydrazoic acid; pyridylaminotetrazole; tetrazole pyridylamino; thiadiazole pyridylamino

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(3)
CA: 097/09/071719E SC: CA122004 DT: J
TI: The insertion reaction of imidogen singlet radicals in the carbon-hydrogen bonds of cyclopropane and isobutane in the liquid phase
AU: Hamada, Junich / Tsunashima, Shigeru / Sato, Shin
LW: Tokyo Inst. Technol. DV: Dep. Appl. Phys. CI: Tokyo PC: 152
NA: Japan
JN: Bull. Chem. Soc. Jpn. VO: 55 IS: 6 PP: 1739-42 PY: 82
CO: BCSJA8 LA: Eng
KW: hydrazoic acid photolysis cyclopropane isobutane; insertion imidogen radical cyclopropane isobutane

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(4)
CA: 097/09/072453A SC: CA129007 DT: J
TI: P-halophosphonium alkylides. III. Reactions with nucleophiles containing a labile hydrogen atom
AU: Kolodyazhnyi, O. I.
LW: Inst. Org. Khim. CI: Kiev NA: USSR
JN: Zh. Obshch. Khim. VO: 52 IS: 5 PP: 1086-92 PY: 82 CO: ZOKHA4
LA: Russ
KW: phosphonium ylide reaction nucleophile; amine reaction phosphonium ylide; alc reaction phosphonium ylide; nitrophenol reaction phosphonium ylide; hydrazoic acid reaction phosphonium ylide

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(5)
CA: 097/11/091329F SC: CA122004 DT: J
TI: Study of the effect of ion association on the kinetics of reaction of hydrazoic acid salts with aliphatic .alpha.-halo derivatives in a system of dimethylformamide-dioxane solvents
AU: Krauklish, I. V. / Sinev, V. V. / Tselinskii, I. V. / Starostin, B. S.
/ Goverdovskii, B. A.
LW: Leningr. Tekhnol. Inst. CI: Leningrad NA: USSR
JN: Zh. Org. Khim. VO: 18 IS: 5 PP: 924-31 PY: 82 CO: ZORKAE
LA: Russ
KW: azide substitution chloromethyl compd kinetics; chloroacetate substitution azide kinetics; chloronitro amine substitution azide kinetics; solvent effect substitution reaction azide; ionization metal azide solvent effect; elec cond azide dissocn

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(6)
CA: 097/11/092144D SC: CA127016 SX: 101 163 DT: P
TI: Antiviral amine and amidine derivatives of glycerol and propanediols
AU: Kraska, Allen R.
NA: USA
JN: Can. PP: 67 pp. Division of Can. Appl. No. 309,488. PY: 820406
CO: CAXXA4 LA: Eng
PAS: Pfizer Inc.
KW: dialkoxypropylpiperidylmethanamine prepn virucide; piperidylmethanamine dialkoxypropyl prepn virucide; aminomethylpiperidine dialkoxypropyl prepn virucide

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(7)
CA: 097/15/127393P SC: CA126005 SX: 101 DT: P
TI: .beta.-Lactam antibiotics and their use
AU: Corbett, David Francis / Southgate, Robert / Coulton, Steven
NA: UK
JN: Eur. Pat. Appl. PP: 53 pp. PY: 820505 CO: EPXXDW LA: Eng
PAS: Beecham Group Ltd.
KW: carbapenem prepn bactericide

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(8)
CA: 097/21/182679M SC: CA130020 DT: C
TI: Reaction pathways to 1-oxygenated gibberellins: synthesis of GA55, GA57 as well as 1-oxygenated GA5 and GA20 analogs
AU: Voigt, B. / Adam, G.
LW: DAW DV: Inst. Plant Biochem. CI: Halle/Saale PC: 4010 NA: Ger.
Dem. Rep.
JN: Int. Conf. Chem. Biotechnol. Biol. Act. Nat. Prod., (Proc.), 1st
VO: 3 IS: 2 PP: 13-17 PY: 81 CO: 47YUAB LA: Eng
PU: Bulg. Acad. Sci.
KW: gibberellin A55 A57 A5 A20 oxygenated

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(9)
CA: 097/24/207123R SC: CA178007 SX: 173 175 DT: J
TI: (WNCl3.0.5HN3)4; crystal structure and IR spectrum
AU: Walker, I. / Straehle, J. / Ruschke, P. / Dehnicke, K.
LW: Univ. Tuebingen DV: Inst. Anorg. Chem. CI: Tuebingen PC: D-7400/1
NA: Fed. Rep. Ger.
JN: Z. Anorg. Allg. Chem. VO: 487, PP: 26-32 PY: 82 CO: ZAACAB
LA: Ger
KW: structure tungsten nitrido azide; crystal structure tungsten nitrido azide; polymer tungsten nitrido azide structure

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CAS 96

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(1)
CA: 096/07/052311D SC: CA128010 SX: 163 DT: P
TI: Tetrazole derivatives and antiulcer composition containing them
AU: Uchida, Minoru / Nakagawa, Kazuyuki / Nishi, Takao
NA: Japan
JN: Eur. Pat. Appl. PP: 125 pp. PY: 810909 CO: EPXXDW LA: Eng
PAS: Otsuka Pharmaceutical Co., Ltd.
KW: tetrazolylthioalkanoamide prepn ulcer

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(2)
CA: 096/11/085846K SC: CA132007 DT: J
TI: Synthesis of 6-aza-B-homocholest-4-eno(6,7-d)tetrazole and its 3.beta.-acetate
AU: Ahmad, M. S. / Siddiqi, Ahsan R. / Moinuddin, G.
LW: Aligarh Muslim Univ. DV: Dep. Chem. CI: Aligarh NA: India
JN: Indian J. Chem., Sect. B VO: 20B IS: 9 PP: 812-13 PY: 81
CO: IJSBDB LA: Eng
KW: azahomocholestenotetrazole; bromoazahomocholestanotetrazole dehydrobromination

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(3)
CA: 096/15/122168P SC: CA123017 SX: 127 128 DT: J
TI: Addition of hydrazoic acid to dimethyl acetylenedicarboxylate
AU: L'abbe, Gerrit / Dekerk, Jean Paul / Van Stappen, Peter
LW: Katholieke Univ. Leuven DV: Dep. Chem. CI: Heverlee PC: B-3030
NA: Belg.
JN: Bull. Soc. Chim. Belg. VO: 90 IS: 10 PP: 1073-4 PY: 81
CO: BSCBAG LA: Eng
KW: addn hydrazoic acid acetylenedicarboxylate; vinyl azide; azidomaleate; azidofumarate; azirinedicarboxylate; isoxazolecarboxylate methoxy

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(4)
CA: 096/18/152267N SC: CA173009 DT: J
TI: The rotational spectra of protonated carbon dioxide, cyanic acid, hydrazoic acid, and isocyanic acid from quantum mechanical calculations
AU: Defrees, D. J. / Loew, G. H. / McLean, A. D.
LW: Mol. Res. Inst. CI: Palo Alto ST: CA PC: 94304 NA: USA
JN: Astrophys. J. VO: 254 IS: 1, PT. 1 PP: 405-11 PY: 82
CO: ASJOAB LA: Eng
KW: MO structure interstellar mol; microwave interstellar mol

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(5)
CA: 096/20/172029Q SC: CA174001 DT: J
TI: Photofragment spectroscopy of hydrazoic acid cooled in a supersonic beam
AU: Dekoven, Benjamin M. / Baronavski, A. P.
LW: Naval Res. Lab. DV: Chem. Div. CI: Washington ST: DC PC: 20375
NA: USA
JN: Chem. Phys. Lett. VO: 86 IS: 4 PP: 392-6 PY: 82 CO: CHPLBC
LA: Eng
KW: hydrazoic acid supersonic beam photolysis; photofragment spectroscopy hydrazoic acid beam; fluorescence imidogen vibrational rotational excitation

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(6)
CA: 096/23/198765B SC: CA122004 SX: 123 125 DT: J
TI: A kinetic investigation of the thionitrite from (.+-.)-2-acetylamino-2-carboxy-1,1-dimethylethanethiol as a possible nitrosating agent
AU: Al-Kaabi, Sharifa S. / Williams, D. Lyn H. / Bonnett, Raymond / Ooi, Suan L.
LW: Univ. Durham DV: Dep. Chem. CI: Durham PC: DH1 3LE NA: UK
JN: J. Chem. Soc., Perkin Trans. 2 IS: 2 PP: 227-30 PY: 82
CO: JCPKBH LA: Eng
KW: nitrosation reagent acetylaminocarboxydimethylethyl thionitrite; nitroaniline methyl nitrosation; methylnitroaniline nitrosation; aniline methyl nitro nitrosation; denitrosation acetylaminocarboxydimethylethyl thionitrite kinetics catalyst

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(7)
CA: 096/23/199971C SC: CA131005 DT: J
TI: The synthesis of dehydroperloline
AU: Prager, Rolf / Duong, Thach / Clarke, Stuart
LW: Univ. Adelaide DV: Dep. Org. Chem. CI: Adelaide PC: 5000
NA: Australia
JN: Heterocycles VO: 18 IS: Spec. Issue PP: 237-9 PY: 82
CO: HTCYAM LA: Eng
KW: dehydroperloline; perloline dehydro

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(1)
CA: 095/01/006037A SC: CA022003 DT: J
TI: REACTIONS OF 2-(TERT-BUTYLIMINO)-3-METHYL-4-TOSYLIMINO-1,3-THIAZETIDINE
AU: L'ABBE, GEUIT / SORGELOOS, DOMINIQUE / TOPPET, SUZANNE / KING, GEOFFREY S. D. / LUC VAN MEERVELT
LW: KATHOL. UNIV. LEUVEN DV: DEP. SCHEIKD. CI: HEVERLEE PC: 3030
NA: BELG.
JN: BULL. SOC. CHIM. BELG. VO: 90 IS: 1 PP: 63-74 PY: 81
CO: BSCBAG LA: ENG
KW: THIAZETIDINE BUTYLIMINO TOSYLIMINO REACTION NUCLEOPHILE; IMINOTHIAZETIDINE REACTION ENAMINE; TOSYLIMINOTHIAZETIDINE REACTION HYDRAZOIC ACID; CRYSTAL STRUCTURE THIAZETIDINE IMINO

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(2)
CA: 095/02/016779H SC: CA076012 SX: 069 DT: J
TI: PROTON AFFINITY OF THE GASEOUS AZIDE ION. THE NITROGEN-HYDROGEN BOND DISSOCIATION ENERGY IN HYDRAZOIC ACID
AU: PELLERITE, MARK J. / JACKSON, ROBERT L. / BRAUMAN, JOHN I.
LW: STANFORD UNIV. DV: DEP. CHEM. CI: STANFORD ST: CA PC: 94305
NA: USA
JN: J. PHYS. CHEM. VO: 85 IS: 12 PP: 1624-6 PY: 81 CO: JPCHAX
LA: ENG
KW: PROTON AFFINITY AZIDE ION; HYDRAZOIC ACID BOND DISSOCN; ENERGY BOND HYDRAZOIC ACID; FORMATION ENERGY AZIDE ION; CYCLOTRON RESONANCE AZIDE ION

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(3)
CA: 095/05/037510D SC: CA006003 DT: J
TI: THE NEW AMINO ACID .BETA.-CARBOXYASPARTIC ACID (ASA). LABORATORY SYNTHESIS AND IDENTIFICATION IN THE RIBOSOMAL PROTEINS OF E. COLI
AU: CHRISTY, M. ROBERT / BARKLEY, ROBERT M. / KOCH, TAD H. / VAN BUSKIRK, JOHN J. / KIRSCH, WOLFF M.
LW: UNIV. COLORADO DV: DEP. CHEM. CI: BOULDER ST: CO PC: 80309
NA: USA
JN: J. AM. CHEM. SOC. VO: 103 IS: 13 PP: 3935-7 PY: 81 CO: JACSAT
LA: ENG
KW: CARBOXYASPARTATE SYNTHESIS ESCHERICHIA RIBOSOME PROTEIN

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(4)
CA: 095/07/062400A SC: CA029006 DT: P
TI: NITROGEN-CONTAINING ALKOXYSILANES
AU: BUDER, WOLFGANG / WOLFF, SIEGFRIED / KLEINSCHMIT, PETER
NA: FED. REP. GER.
JN: GER. OFFEN. PP: 11 PP. PY: 810319 CO: GWXXBX LA: GER
PAS: DEGUSSA
KW: CARBAMIDAZIDE ALKOXYSILYLALKYL; SILANE ALKOXY CARBAMIDAZIDE

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(5)
CA: 095/09/080541B SC: CA026003 DT: J
TI: ASSIGNMENT OF REGIOCHEMISTRY TO SUBSTITUTED NAPHTHOQUINONES BY CHEMICAL AND SPECTROSCOPIC METHOD; AMINO-, HYDROXY-, AND BROMOJUGLONE DERIVATIVES
AU: PARKER, KATHLYN A. / SWORIN, MICHAEL E.
LW: BROWN UNIV. DV: DEP. CHEM. CI: PROVIDENCE ST: RI PC: 02912
NA: USA
JN: J. ORG. CHEM. VO: 46 IS: 16 PP: 3218-23 PY: 81 CO: JOCEAH
LA: ENG
KW: AMINOHYDROXYNAPHTHOQUINONE; HYDROXYNAPHTHOQUINONE REACTION HYDRAZOIC ACID; NAPHTHOQUINONE HYDROXY HYDRAZOIC ACID; JUGLONE AMINO

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(6)
CA: 095/11/098088U SC: CA031003 SX: 001 027 DT: J
TI: CENTRAL NERVOUS SYSTEM ACTIVE COMPOUNDS. IV. SYNTHESIS OF 3-(AMINOBENZYL)PHTHALIDES
AU: HUTCHISON, GEOFFREY I. / MARSHALL, PHILIP A. / PRAGER, ROLF H. / TIPPETT, JAMES M. / WARD, A. DAVID
LW: UNIV. ADELAIDE DV: DEP. ORG. CHEM. CI: ADELAIDE PC: 5001
NA: AUSTRALIA
JN: AUST. J. CHEM. VO: 33 IS: 12 PP: 2699-715 PY: 80 CO: AJCHAS
LA: ENG
KW: PHTHALIDE AMINOBENZYL; PHTHALIDEISOQUINOLINE; CENTRAL NERVOUS SYSTEM PHTHALIDEISOQUINOLINE

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(7)
CA: 095/11/098149Q SC: CA032005 DT: P
TI: 14-AMINO STEROID DERIVATIVES AND INTERMEDIATES
AU: JARREAU, FRANCOIS XAVIER / KOENIG, JEAN JACQUES
NA: FR.
JN: EUR. PAT. APPL. PP: 15 PP. PY: 810311 CO: EPXXDW LA: FR
PAS: ETABLISSEMENTS NATIVELLE S. A.
KW: AMINO STEROID; AZIDOLYSIS HYDROXY STEROID

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(8)
CA: 095/12/100042V SC: CA050003 DT: C
TI: SHOCK-WAVE INITIATION OF LIQUID HYDRAZOIC ACID
AU: YAKOVLEVA, G. S. / KURBANGALINA, R. KH.
CI: CHERNOGOLOVKA NA: USSR
JN: DETONATSIYA, MATER. VSES. SIMP. GORENIYU VZRYVU, 6TH PP: 56-60 PY: 80 CO: 45HUAE LA: RUSS
PU: AKAD. NAUK SSSR, INST. KHIM. FIZ.
KW: SHOCK DETONATION HYDRAZOIC ACID

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(9)
CA: 095/15/126250M SC: CA001005 SX: 027 028 DT: P
TI: CARBOSTYRIL DERIVATIVES AS PHOSPHODIESTERASE INHIBITORS
NA: JAPAN JN: JPN. KOKAI TOKKYO KOHO PP: 8 PP. PY: 810425 CO: JKXXAF LA: JAPAN PAS: OTSUKA PHARMACEUTICAL CO., LTD.
KW: PHOSPHODIESTERASE INHIBITOR TETRAZOLYLPROPOXYCARBOSTYRIL; CARBOSTYRIL TETRAZOLYLPROPOXY PHOSPHODIESTERASE INHIBITOR; ANTIHYPERTENSIVE TETRAZOLYLPROPOXYCARBOSTYRIL; CIRCULATION BRAIN TETRAZOLYLPROPOXYCARBOSTYRIL; QUINOLINONE TETRAZOLYLPROPOXYCARBOSTYRIL

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(10)
CA: 095/16/140810A SC: CA072011 SX: 067 DT: J
TI: CATALYTIC POLAROGRAPHIC WAVES OF COBALT(II) IN SODIUM AZIDE WITH HYDRAZOIC ACID
AU: TOKORO, ROBERTO / NEVES, EDUARDO A.
LW: UNIV. SAO PAULO DV: INST. QUIM. CI: SAO PAULO NA: BRAZIL
JN: J. ELECTROANAL. CHEM. INTERFACIAL ELECTROCHEM. VO: 125 IS: 1
PP: 115-28 PY: 81 CO: JEIEBC LA: ENG
KW: POLAROG CATALYTIC WAVE COBALT; AZIDE HYDRAZOIC ACID POLAROG COBALT; KINETICS ELECTROREDN COBALT HYDRAZOIC ACID; REDN HYDRAZOIC ACID COBALT

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(11)
CA: 095/17/149573H SC: CA022005 SX: 078 DT: J
TI: INFLUENCE OF THE SOLVENT ON KINETICS OF REACTIONS OF CHROMIUM(II) IONS
AU: SEVCIK, PETER / TKAC, JAN
LW: COMENIUS UNIV. DV: DEP. PHYS. CHEM. CI: BRATISLAVA PC: 816 31
NA: CZECH.
JN: COLLECT. CZECH. CHEM. COMMUN. VO: 46 IS: 7 PP: 1554-9 PY: 81
CO: CCCCAK LA: ENG
KW: SOLVENT EFFECT REDOX CHROMOUS HYDROXYLAMINE; KINETICS REDOX CHROMOUS CHLOROACETIC ACID; MECHANISM REDOX CHROMOUS MALEIC ACID

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(12)
CA: 095/17/150960P SC: CA030015 SX: 005 DT: P
TI: AZIDOGIBBERELLINS
AU: VOIGT, BRUNHILDE / ADAM, GUENTER
NA: GER. DEM. REP.
JN: GER. (EAST) PP: 9 PP. PY: 810325 CO: GEXXA8 LA: GER
PAS: AKADEMIE DER WISSENSCHAFTEN DER DDR
KW: AZIDOGIBBERELLIN PLANT GROWTH; GIBBERELLIN AZIDO PLANT GROWTH

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(13)
CA: 095/21/186981K SC: CA027009 SX: 028 DT: J
TI: REACTIVITY OF 2,3-DIHYDROBENZO(B)THIOPEN-3-ONE 1,1-DIOXIDE
AU: RIED, WALTER / OREMEK, GERHARD
LW: UNIV. FRANKFURT DV: INST. ORG. CHEM. CI: FRANKFURT/MAIN
PC: D-6000/70 NA: FED. REP. GER.
JN: LIEBIGS ANN. CHEM. IS: 4 PP: 619-22 PY: 81 CO: LACHDL LA: GER
KW: BENZOTHIOPHENONE DIOXIDE PREPN REACTIVITY; AMINE REACTION BENZOTHIOPHENONE DIOXIDE; HYDRAZINE REACTION BENZOTHIOPHENONE DIOXIDE; PHOSPHORANE REACTION BENZOTHIOPHENONE DIOXIDE; HYDRAZOIC ACID REACTION BENZOTHIOPHENONE DIOXIDE; BENZOTHIAZINONE DIOXIDE

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(14)
CA: 095/22/196449G SC: CA078002 DT: J
TI: SHORT NOTE ON NONEXPLOSIVE DISTILLATION OF HYDRAZOIC ACID (HN3)
AU: SOOD, R. K. / NYA, A. E.
LW: UNIV. CALABAR CI: CALABAR NA: NIGERIA
JN: J. THERM. ANAL. VO: 20 IS: 2 PP: 491-3 PY: 81 CO: JTHEA9
LA: ENG
KW: HYDRAZOIC ACID DISTN SAFETY

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(15)
CA: 095/24/208624A SC: CA059001 SX: 079 080 DT: J
TI: SAMPLING TUBES FOR THE COLLECTION OF SELECTED ACID VAPORS IN AIR
AU: WILLIAMS, KENNETH E. / ESPOSITO, GEORGE G. / RINEHART, DOUGLAS S.
LW: U. S. ARMY ENVIRON. HYG. AGENCY DV: ENVIRON. CHEM. DIV.
CI: ABERDEEN PROVING GROUND ST: MD PC: 21010 NA: USA
JN: AM. IND. HYG. ASSOC. J. VO: 42 IS: 6 PP: 476-8 PY: 81
CO: AIHAAP LA: ENG
KW: INORG ACID DETN AIR SAMPLER; ORG ACID DETN AIR SAMPLER; ACID DETN SAMPLING APP AIR; ACETIC ACID DETN SAMPLER AIR; HYDROCHLORIC ACID DETN SAMPLER AIR; HYDRAZOIC ACID DETN SAMPLER AIR

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(16)
CA: 095/24/210057M SC: CA065004 DT: J
TI: A QUALITATIVE MOLECULAR ORBITAL EXPLANATION OF LINEAR, QUASILINEAR, AND BENT SHAPES FOR HABC MOLECULES WITH 16 VALENCE ELECTRONS
AU: GIMARC, BENJAMIN M. / WOODCOCK, DAVID A.
LW: UNIV. SOUTH CAROLINA DV: DEP. CHEM. CI: COLUMBIA ST: SC
PC: 29208 NA: USA
JN: THEOCHEM VO: 2 IS: 1-2 PP: 37-43 PY: 81 CO: THEODJ LA: ENG
KW: MO TETRAATOMIC MOL STRUCTURE; ENERGY TETRAATOMIC MOL EHMO; ISOCYANIC ACID STRUCTURE ENERGY MO; HYDRAZOIC ACID STRUCTURE ENERGY MO; ACETYLENE FLUORO STRUCTURE ENERGY MO; FLUORETHYNE STRUCTURE ENERGY MO; ISOTHIOFULMINIC ACID STRUCTURE MO; THIOFULMINIC ACID STRUCTURE MO; ISOTHIOCYANIC ACID STRUCTURE MO; THIOCYANIC ACID STRUCTURE MO; ISOFULMINIC ACID STRUCTURE MO; ISOCYANIC ACID STRUCTURE MO

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(1)
CA: 094/03/014795R SC: CA022004 DT: J
TI: THE REACTIONS OF NH(A1.DELTA.) WITH ETHANE, PROPANE, AND ISOBUTANE IN THE LIQUID PHASE
AU: TSUNASHIMA, SHIGERU / HAMADA, JUNICHI / HOTTA, MITSUHIRO / SATO, SHIN
LW: TOKYO INST. TECHNOL. DV: DEP. APPL. PHYS. CI: TOKYO PC: 152
NA: JAPAN
JN: BULL. CHEM. SOC. JPN. VO: 53 IS: 9 PP: 2443-7 PY: 80
CO: BCSJA8 LA: ENG
KW: PHOTOLYSIS HYDRAZOIC ACID ALKANE

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(2)
CA: 094/03/016018P SC: CA033007 SX: 028 DT: J
TI: SYNTHESIS OF 1,2,3-TRIAZOLONUCLEOSIDES. I. GLYCOSYL AZIDES AS STARTING MATERIAL FOR THE SYNTHESIS OF NUCLEOSIDE ANALOGS
AU: SCHOERKHUBER, WOLFGANG / ZBIRAL, ERICH
LW: UNIV. WIEN DV: INST. ORG. CHEM. CI: VIENNA PC: A-1090
NA: AUSTRIA
JN: LIEBIGS ANN. CHEM. IS: 9 PP: 1455-69 PY: 80 CO: LACHDL LA: GER
KW: TRIAZOLE NUCLEOSIDE; GLYCOSYL AZIDE CYCLOADDN OXOALKYLIDENEPHOSPHORANE

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(3)
CA: 094/05/030996N SC: CA032006 SX: 027 028 DT: J
TI: RING A-FUSED STEROIDAL TETRAZOLES
AU: SHAFIULLAH / GHAFFARI, M. A.
LW: ALIGARH MUSLIM UNIV. DV: DEP. CHEM. CI: ALIGARH NA: INDIA
JN: ACTA CHIM. ACAD. SCI. HUNG. VO: 103 IS: 4 PP: 333-7 PY: 80
CO: ACASA2 LA: ENG
KW: CHOLESTENONE HYDRAZOIC ACID REACTION; AZAHOMOCHOLESTENONE; TETRAZOLE AZAHOMOCHOLESTENO; SECOCHOLESTENENITRILE AZIDODIETHYL; AZAHOMOCHOLESTENOTETRAZOLE

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(4)
CA: 094/09/065943V SC: CA032006 SX: 028 DT: J
TI: THE SCHMIDT REACTION: SYNTHESIS OF DIENOTETRAZOLES
AU: HUSAIN, MUBARAK / HUSAIN, S. ROFAT / AHMAD, M. S.
LW: ALIGARH MUSLIM UNIV. DV: DEP. CHEM. CI: ALIGARH PC: 202001
NA: INDIA
JN: ACTA CHIM. ACAD. SCI. HUNG. VO: 104 IS: 1 PP: 79-83 PY: 80
CO: ACASA2 LA: ENG
KW: SCHMIDT REACTION CHOLESTADIENONE; HYDRAZOIC ACID CHOLESTADIENONE; AZAHOMOCHOLESTENOTETRAZOLE; DIAZADIHOMOCHOLESTENOTETRAZOLE; TETRAZOLE AZAHOMOCHOLESTENO

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(5)
CA: 094/16/129748V SC: CA073003 DT: J
TI: TIME-RESOLVED INFRARED SPECTRAL PHOTOGRAPHY: STUDY OF LASER-INITIATED EXPLOSIONS IN HYDRAZOIC ACID
AU: AVOURIS, P. / BETHUNE, D. S. / LANKARD, J. R. / ORS, J. A. / SOROKIN, P. P.
LW: IBM DV: THOMAS J. WATSON RES. CENT. CI: YORKTOWN HEIGHTS ST: NY
PC: 10598 NA: USA
JN: J. CHEM. PHYS. VO: 74 IS: 4 PP: 2304-12 PY: 81 CO: JCPSA6
LA: ENG
KW: EXPLOSION HYDRAZOIC ACID IR; LASER INDUCED EXPLOSION HYDRAZOIC ACID

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(6)
CA: 094/17/140043G SC: CA032004 SX: 028 DT: P
TI: 3-OXO-7A-AZA-B-HOMO-4-ANDROSTENO(7A,7-D)TETRAZOL-17.BETA.-YL ACETATE
AU: SINGH, HARKISHAN / RHUTANI, KAMLESH KUMAR / MALHOTRA, RAVINDER KUMAR / PAUL, DHARAM
NA: INDIA
JN: INDIAN PP: 6 PP. PY: 800802 CO: INXXAP LA: ENG
PAS: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (INDIA)
KW: OXOAZAHOMOANDROSTENOTETRAZOLYL ACETATE; HYDRAZOIC ACID CYCLOCONDENSATION ACETOXYANDROSTENONE; AZAHOMOANDROSTENOTETRAOLE OXO

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(7)
CA: 094/17/140044H SC: CA032005 SX: 028 DT: P
TI: 7A-AZA-B-HOMO-4-PREGNENO(7A,7-D)TETRAZOLE-3,20-DIONE
AU: SINGH, HARKISHAN / BHUTANI, KAMLESH KUMAR / MALHOTRA, RAVINDER KUMAR
NA: INDIA
JN: INDIAN PP: 5 PP. PY: 800802 CO: INXXAP LA: ENG
PAS: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (INDIA)
KW: AZAHOMOPREGNENOTETRAZOLEDIONE; HYDRAZOIC ACID CYCLOCONDENSATION SPIROSTENONE; TETRAZOLE AZAHOMOPREGNENO

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(8)
CA: 094/21/175358R SC: CA032004 DT: J
TI: STEROIDS. PART XLIII. 6.ALPHA.,7.ALPHA.-EPOXIDE RING CLEAVAGE WITH HYDRAZOIC ACID IN SOME 3-KETO-.DELTA.4-STEROIDS. OXIDATIVE CONTRACTION OF RING B
AU: KOCOR, MARIAN / GUMULKA, MARIA / KROSZCZYNSKI, WOJCIECH / PYREK, JAN S.
LW: POL. ACAD. SCI. DV: INST. ORG. CHEM. CI: WARSAW PC: 00961
NA: POL.
JN: POL. J. CHEM. VO: 54 IS: 7-8 PP: 1445-54 PY: 80 CO: PJCHDQ
LA: ENG
KW: AZIDOANDROSTADIENONE HYDROXY REDN RING CONTRATION; NORANDROSTENECARBONITRILE OXO; EPOXYANDROSTADIENE HYDRAZOIC ACID RING CLEAVAGE; ANDROSTADIENE EPOXY HYDRAZOIC ACID RING CLEAVAGE

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(9)
CA: 094/23/191646P SC: CA023019 DT: J
TI: OXIDATION OF HYDRAZOISOBUTYRONITRILE IN A CONTINUOUS REACTION
AU: STRONGIN, G. M. / BAZAKINA, V. G. / MATVEEV, A. S. / LOPATINSKAYA, A. M. / POGODINA, L. M.
NA: USSR
JN: KHIM. PROM-ST., SER.: AZOTN. PROM-ST. IS: 4 PP: 9-11 PY: 80
CO: KSPRDR LA: RUSS
KW: HYDRAZOISOBUTYRONITRILE OXIDN CHLORINE APP OPTIMIZATION; AIBN PREPN APP OPTIMIZATION

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(10)
CA: 094/23/192322S SC: CA028009 DT: P
TI: PYRAZOLE DERIVATIVES AND PHARMACEUTICAL PREPARATIONS CONTAINING THEM
AU: GANTE, JOACHIM / RADUNZ, HANS ECKART / ORTH, DIETER / MINCK, KLAUS / WILD, ALBRECHT / KLOCKOW, MICHAEL
NA: FED. REP. GER.
JN: GER. OFFEN. PP: 32 PP. PY: 800828 CO: GWXXBX LA: GER
PAS: MERCK PATENT G.M.B.H.
KW: ANALGESIC PHENYLPYRAZOLE; ANTICHOLESTEREMIC PHENYLPYRAZOLE; ANTIPHLOGISTIC PHENYLPYRAZOLE

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(1)
CA: 093/03/026293T SC: CA027018 SX: 028 DT: P
TI: THERAPEUTIC TETRAZOLYLALKOXYCARBOSTYRIL DERIVATIVES
NA: JAPAN
JN: BELG. PP: 47 PP. PY: 791217 CO: BEXXAL LA: FR
PAS: OTSUKA PHARMACEUTICAL CO., LTD.
KW: TETRAZOLYLALKOXYCARBOSTYRIL PREPN BLOOD PLATELET; PHOSPHODIESTERASE INHIBITOR TETRAZOLYLALKOXYCARBOSTYRIL PREPN; VASODILATOR TETRAZOLYLALKOXYCARBOSTYRIL PREPN; ANTIHYPERTENSIVE TETRAZOLYLALKOXYCARBOSTYRIL PREPN; ANTIINFLAMMATORY TETRAZOLYLALKOXYCARBOSTYRIL PREPN; ULCER TETRAZOLYLALKOXYCARBOSTYRIL PREPN; CARBOSTYRIL TETRAZOLYLALKOXY PREPN BLOOD PLATELET

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(2)
CA: 093/04/034876A SC: CA074001 SX: 069 DT: J
TI: THEORETICAL AB INITIO SCF-CI STUDY OF THE PHOTOCHEMICAL BEHAVIOR OF HYDRAZOIC ACID AND RELATED SPECIES
AU: SEVIN, A. / LE ROUX, J. P. / BIGOT, B. / DEVAQUET, A.
LW: UNIV. PIERRE ET MARIE CURIE DV: LAB. CHIM. ORG. THEOR. CI: PARIS
PC: 75230 NA: FR.
JN: CHEM. PHYS. VO: 45 IS: 2 PP: 305-14 PY: 80 CO: CMPHC2
LA: ENG
KW: HYDRAZOIC ACID PHOTOCHEM; PHOTOLYSIS HYDRAZOIC ACID

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(3)
CA: 093/06/057363V SC: CA073003 DT: J
TI: THE SUBSTITUTION STRUCTURE OF HYDRAZOIC ACID, HNNN
AU: WINNEWISSER, BRENDA P.
LW: JUSTUS-LEIBIG-UNIV. GIESSEN DV: PHYS. CHEM. INST. CI: GIESSEN
PC: D-6300 NA: FED. REP. GER.
JN: J. MOL. SPECTROSC. VO: 82 IS: 1 PP: 220-3 PY: 80 CO: JMOSA3
LA: ENG
KW: SUBSTITUTION STRUCTURE HYDRAZOIC ACID

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(4)
CA: 093/10/104040Z SC: CA073003 DT: C
TI: INFRARED DIODE LASER SPECTROSCOPY OF HYDRAZOIC ACID. .NU.2 AND .NU.3
AU: YAMADA, KOICHI / TAKAMI, MICHIO
LW: INST. PHYS. CHEM. RES. CI: WAKO NA: JAPAN
JN: KOEN YOSHISHU - BUNSHI KOZO SOGO TORONKAI PP: 308-9 PY: 79
CO: 43CTA6 LA: JAPAN
PU: CHEM. SOC. JAPAN
KW: IR AMMONIA

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(5)
CA: 093/11/114894V SC: CA033005 SX: 022 DT: J
TI: STEREOCHEMISTRY OF NUCLEOPHILIC ADDITION REACTIONS. VIII. PREPARATION OF 1,5-ANHYDRO-4,6-O-BENZYLIDENE-2,3-DIDEOXY-3-NITRO-D-ERYTHRO-HEX-2-ENITOL AND ITS REACTIONS WITH SOME NUCLEOPHILES
AU: SAKAKIBARA, TORU / NOMURA, YUTAKA / SUDO, ROKURO
LW: TOKYO INST. TECHNOL. DV: FAC. SCI. CI: TOKYO PC: 152 NA: JAPAN
JN: BULL. CHEM. SOC. JPN. VO: 53 IS: 6 PP: 1642-6 PY: 80
CO: BCSJA8 LA: ENG
KW: ANHYDRODIDEOXYNITROHEXENITOL PREPN ADDN REACTION; NITROHEXENITOL ANHYDRODIDEOXY PREPN ADDN REACTION; HEXENITOL ANHYDRODIDEOXYNITRO PREPN ADDN REACTION; STEREOCHEM ADDN REACTION

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(6)
CA: 093/12/122941Y SC: CA073003 DT: J
TI: RAMAN SPECTRUM OF THE .NU.2 BAND OF HYDRAZOIC ACID (NITROGEN-14)
AU: BENDTSEN, JORGEN
LW: AARHUS UNIV. DV: DEP. CHEM. CI: AARHUS PC: DK 8000 NA: DEN.
JN: J. RAMAN SPECTROSC. VO: 9 IS: 3 PP: 162-5 PY: 80 CO: JRSPAF
LA: ENG
KW: RAMAN HYDRAZOIC ACID

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(7)
CA: 093/15/149351T SC: CA022004 DT: C
TI: REACTIONS OF NH RADICAL WITH ETHYLENE
AU: KITAMURA, TAKASHI / TSUNASHIMA, SHIGERU / SATO, SHIN
LW: TOKYO INST. TECHNOL. DV: DEP. APPL. PHYS. CI: TOKYO NA: JAPAN
JN: KOKAGAKU TORONKAI KOEN YOSHISHU PP: 230-1 PY: 79 CO: 42PZAE
LA: JAPAN
PU: CHEM. SOC. JAPAN
KW: IMIDOGEN CYCLOADDN ETHYLENE MECHANISM

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(8)
CA: 093/15/149352U SC: CA022004 DT: C
TI: REACTION OF ELECTRONICALLY EXCITED NH(1.DELTA.) WITH PROPANE
AU: KAJIMOTO, OKITSUGU / KONDO, OSAMU / FUENO, TAKAYUKI
LW: OSAKA UNIV. DV: FAC. ENG. SCI. CI: OSAKA NA: JAPAN
JN: KOKAGAKU TORONKAI KOEN YOSHISHU PP: 276-7 PY: 79 CO: 42PZAE
LA: JAPAN
PU: CHEM. SOC. JAPAN
KW: IMIDOGEN INSERTION PROPANE SINGLET; HYDROGEN ABSTRACTION PROPANE IMIDOGEN; SELECTIVITY HYDROGEN ABSTRACTION PROPANE; KINETICS PROPANE IMIDOGEN SINGLET; NITROGEN DIOXIDE ALKYL RADICAL TRAP; PROPYL RADICAL; ETHYL RADICAL; ISOPROPYL RADICAL

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(9)
CA: 093/15/150183W SC: CA028011 SX: 022 DT: J
TI: STUDY OF THE STRUCTURE OF NITRATION PRODUCTS OF 1-PHENYL-5-STYRYLTETRAZOLE USING A MASS-SPECTROMETRIC METHOD
AU: ZYRYANOV, V. A. / KLYUEV, N. A. / RUSINOV, V. L. / POSTOVSKII, I. YA. / BELIKOV, A. B. / GUSEV, L. F.
LW: URAL. POLITEKH. INST. CI: SVERDLOVSK PC: 620002 NA: USSR
JN: KHIM. GETEROTSIKL. SOEDIN. IS: 4 PP: 558-63 PY: 80 CO: KGSSAQ
LA: RUSS
KW: NITRATION PHENYLSTYRYLTETRAZOLE MASS SPECTRA; TETRAZOLE PHENYLSTYRYL NITRATION

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(10)
CA: 093/16/159081U SC: CA074001 DT: J
TI: THE UV PHOTOLYSIS OF HYDRAZOIC ACID
AU: PIPER, L. G. / KRECH, R. H. / TAYLOR, R. L.
LW: PHYS. SCI. INC. CI: WOBURN ST: MA PC: 01801 NA: USA
JN: J. CHEM. PHYS. VO: 73 IS: 2 PP: 791-800 PY: 80 CO: JCPSA6
LA: ENG
KW: HYDRAZOIC ACID PHOTOLYSIS KINETIC ANALYSIS

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(11)
CA: 093/20/192875D SC: CA067003 SX: 078 DT: J
TI: AZIDE MECHANISMS FOR THE PRODUCTION OF NITROGEN CHLORIDE (NCL) METASTABLES
AU: PRITT, A. T., JR. / COOMBE, R. D.
LW: ROCKWELL INT. SCI. CENT. CI: THOUSAND OAKS ST: CA PC: 91360
NA: USA
JN: INT. J. CHEM. KINET. VO: 12 IS: 10 PP: 741-53 PY: 80
CO: IJCKBO LA: ENG
KW: NITROGEN CHLORIDE METASTABLE PRODN; AZIDE REACTION CHLORINE FLUORINE ATOM; HYDRAZOIC ACID REACTION FLUORINE ATOM

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(12)
CA: 093/21/204770F SC: CA029007 DT: J
TI: REACTION OF DIETHYLPHOSPHONOPHENYLKETENE WITH HYDRAZOIC ACID AND DIAZOMETHANE
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LW: INST. ORG. KHIM. CI: KIEV NA: USSR
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KW: PHOSPHONOPHENYLKETENE REACTION HYDRAZOIC ACID DIAZOMETHANE; KETENE PHENYLDIETHYLPHOSPHONO INSERTION DIAZOMETHANE; INSERTION DIAZOMETHANE PHENYLDIETHYLPHOSPHONOKETENE; ADDN HYDRAZOIC ACID PHENYLDIETHYLPHOSPHONOKETENE
