Benzenamine, N,N-dimethyl-4-(phenylazo)-

Other names:

(4-Dimethylaminophenyl)phenyldiazene
(p-Dimethylaminophenyl)phenyldiazene
4-(Dimethylamino)azobenzene
4-(Dimethylamino)azobenzol
4-(Dimethylamino)phenylazobenzene
4-(N,N-Dimethylamino)azobenzene
4-(Phenylazo)-N,N-dimethylaniline
Aniline, N,N-dimethyl-p-(phenylazo)-
Atul Fast Yellow R
Azobenzene, p-(dimethylamino)-
Benzenamine, N,N-dimethyl-4-(2-phenyldiazenyl)-
Benzeneazodimethylaniline
Brilliant Fast Oil Yellow
Brilliant Fast Spirit Yellow
Brilliant Fast Yellow
Brilliant Oil Yellow
Butter Yellow
Butyro flavine
C.I. 11020
C.I. Solvent Yellow 2
Cerasine Yellow GG
DAB
DAB (carcinogen)
DMAB
Dimethyl Yellow
Dimethyl Yellow Analar
Dimethyl Yellow N,N-Dimethylaniline
Dimethyl aminoazobenzene
Dimethylaminoazobenzol
Enial Yellow 2G
Fast Oil Yellow B
Fast Yellow
Fat Yellow
Fat Yellow A
Fat Yellow AD OO
Fat Yellow ES
Fat Yellow ES Extra
Fat Yellow Extra Conc.
Fat Yellow R
Fat Yellow R (8186)

Fat Yellow extra conc
Grasal Brilliant Yellow
Iketon yellow extra
Jaune de beurre
Methyl Yellow
N,N-Dimethyl-4-(phenylazo)benzamine
N,N-Dimethyl-4-(phenylazo)benzenamine
N,N-Dimethyl-4-(phenyldiazenyl)aniline
N,N-Dimethyl-4-aminoazobenzene
N,N-Dimethyl-4-phenylazoaniline
N,N-Dimethyl-p-(phenylazo)aniline
N,N-Dimethyl-p-aminoazobenzene
N,N-Dimethyl-p-azoaniline
N,N-dimethyl-4-phenyldiazenylaniline
OIL YELLOW S
Oil Yellow 20
Oil Yellow 2625
Oil Yellow 2G
Oil Yellow 7463
Oil Yellow BB
Oil Yellow D
Oil Yellow DN
Oil Yellow FF
Oil Yellow FN
Oil Yellow G
Oil Yellow G-2
Oil Yellow GG
Oil Yellow GR
Oil Yellow II
Oil Yellow N
Oil Yellow PEL
Oleal Yellow 2G
Organol Yellow ADM
Orient Oil Yellow GG
P.D.A.B.
Petrol Yellow WT
RCRA Waste number U093
Resinol Yellow GR
Resoform Yellow Gga
Silotras Yellow T 2G
Solvent Yellow 2
Somalia Yellow A
Stear Yellow JB

	Sudan GG
	Sudan Yellow
	Sudan Yellow GG
	Sudan Yellow GGA
	Toyo Oil Yellow G
	USAF EK-338
	Waxoline Yellow AD
	Waxoline Yellow ADS
	Yellow G Soluble in Grease
	Zlut maselna
	Zlut rozpoustedlova 2
	p-(Dimethylamino)azobenzene
	p-Dimethylamino-azobenzol
Inchi:	InChI=1S/C14H15N3/c1-17(2)14-10-8-13(9-11-14)16-15-12-6-4-3-5-7-12/h3-11H,1-2H3
InchiKey:	JCYPECIVGRXBMO-UHFFFAOYSA-N
Formula:	C14H15N3
SMILES:	CN(C)c1ccc(N=Nc2ccccc2)cc1
Mol. weight [g/mol]:	225.29
CAS:	60-11-7

Physical Properties

Property code	Value	Unit	Source
chs	-7989.80	kJ/mol	NIST Webbook
hf	244.05	kJ/mol	Joback Method
hfs	337.00	kJ/mol	NIST Webbook
hvap	60.69	kJ/mol	Joback Method
log10ws	-5.25		Aqueous Solubility Prediction Method
logp	4.168		Crippen Method
mcvol	186.240	ml/mol	McGowan Method
pc	2106.13	kPa	Joback Method
rinpol	368.20		NIST Webbook
rinpol	366.03		NIST Webbook
tb	739.70	K	Joback Method
tc	994.13	K	Joback Method
tf	389.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	23.08	kJ/mol	389.20	NIST Webbook
hsubt	117.60 ± 1.70	kJ/mol	350.00	NIST Webbook
hsubt	115.90 ± 1.30	kJ/mol	353.00	NIST Webbook
hsubt	120.90 ± 1.70	kJ/mol	373.00	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method: https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C60117&Units=SI

Legend

chs: Standard solid enthalpy of combustion
hf: Enthalpy of formation at standard conditions
hfs: Solid phase enthalpy of formation at standard conditions
hfust: Enthalpy of fusion at a given temperature
hsubt: Enthalpy of sublimation at a given temperature
hvap: Enthalpy of vaporization at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point

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