

AZOXYBENZENE

Other names:	Diazene, diphenyl-, 1-oxide Azobenzene, oxide Azoxybenzide Diphenyldiazene N-oxide Azossibenzene Azoxybenzeen Azoxybenzol Benzene, azoxydi- Fenazox Fentoxan Diazene, 1,2-diphenyl-, 1-oxide NSC 1796
Inchi:	InChI=1S/C12H10N2O/c15-14(12-9-5-2-6-10-12)13-11-7-3-1-4-8-11/h1-10H
InchiKey:	GAUZCKBSTZFWCT-UHFFFAOYSA-N
Formula:	C12H10N2O
SMILES:	[O-][N+](=Nc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	198.23

Physical Properties

Property code	Value	Unit	Source
chs	-6450.50	kJ/mol	NIST Webbook
chs	-6450.50	kJ/mol	NIST Webbook
chs	-6394.70 ± 1.50	kJ/mol	NIST Webbook
hf	342.00 ± 2.40	kJ/mol	NIST Webbook
hfs	243.40 ± 2.20	kJ/mol	NIST Webbook
hfs	299.00	kJ/mol	NIST Webbook
hfs	299.00	kJ/mol	NIST Webbook
hsub	98.60 ± 0.90	kJ/mol	NIST Webbook
hvap	76.94	kJ/mol	Cheméo Relay (1.0)
ie	8.55	eV	NIST Webbook
ie	8.40	eV	NIST Webbook
ie	8.35	eV	NIST Webbook
ie	8.35	eV	NIST Webbook
ie	8.10	eV	NIST Webbook
log10ws	-3.67		Cheméo Relay (1.0)
logp	3.612		Crippen Method
mcvol	153.950	ml/mol	McGowan Method

pc	3826.23	kPa	Cheméo Relay (1.0, beta)
rinpol	1846.00		NIST Webbook
tb	581.49	K	Cheméo Relay (1.0)
tc	878.14	K	Cheméo Relay (1.0)
tf	307.75 ± 0.50	K	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C495487&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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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