

Diazene, bis(2-chlorophenyl)-

Other names:	2,2'-dichloroazobenzene
Inchi:	InChI=1S/C12H8Cl2N2/c13-9-5-1-3-7-11(9)15-16-12-8-4-2-6-10(12)14/h1-8H
InchiKey:	FIQUJBRQBUIISO-UHFFFAOYSA-N
Formula:	C12H8Cl2N2
SMILES:	Clc1ccccc1N=Nc1ccccc1Cl
Mol. weight [g/mol]:	251.11
CAS:	7334-33-0

Physical Properties

Property code	Value	Unit	Source
hf	174.85	kJ/mol	Joback Method
hvap	63.62	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	5.409		Crippen Method
mcvol	172.560	ml/mol	McGowan Method
pc	2324.78	kPa	Joback Method
tb	761.34	K	Joback Method
tc	1037.20	K	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7334330&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

hf:	Enthalpy of formation at standard conditions
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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