

Guanidine, N,N'-bis(2-methylphenyl)-

Other names:

Guanidine, 1,3-di-o-tolyl-
Di-o-tolylguanidine
DOTG
Eveite DOTG
N,N'-Di-o-tolylguanidine
Vulkacit DOTG
Vulkacite DOTG
1,3-Bis(o-tolyl)guanidine
1,3-di-o-Tolylguanidine
USAF A-6598
1,3-Di-o-tolyguanidine
Diorthotolylguanidine
DOTG accelerator
Vulkacit dotg/C
Acrochem DOTG
Akrochem DOTG
D.O.T.G
Ekaland DOTG
N,N'-Di-ortho-tolylguanidine
N,N-Di-O-tolylguanidine
Perkacit DOTG
Vanax DOTG
1,3-Di-2-tolylguanidine
CNS 1001
DTG
N,N'-Di-o-toluylguanidine
Nocceler DT
NSC 132023
NSC 473
Sanceler DT
Soxinol DT
Vulcafor DOTG

Inchi:

InChI=1S/C15H17N3/c1-11-7-3-5-9-13(11)17-15(16)18-14-10-6-4-8-12(14)2/h3-10H,1-2H

InchiKey:

OPNUROKCUBTKLF-UHFFFAOYSA-N

Formula:

C15H17N3

SMILES:

Cc1ccccc1NC(=N)Nc1ccccc1C

Mol. weight [g/mol]:

239.32

CAS:

97-39-2

Physical Properties

Property code	Value	Unit	Source
gf	663.36	kJ/mol	Joback Method
hf	402.46	kJ/mol	Joback Method
hvap	79.81	kJ/mol	Joback Method
log10ws	-5.58		Crippen Method
logp	3.762		Crippen Method
mcvol	200.330	ml/mol	McGowan Method
tb	790.60	K	Joback Method
tf	510.79	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	571.15	J/molxK	790.60	Joback Method
cpg	58.43	J/molxK	100.12	Joback Method
cpg	58.43	J/molxK	100.12	Joback Method
cpg	58.43	J/molxK	100.12	Joback Method
cpg	58.43	J/molxK	100.12	Joback Method
cpg	58.43	J/molxK	100.12	Joback Method
cpg	58.43	J/molxK	100.12	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C97392&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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