

N,N'-di-sec-Butyl-p-phenylenediamine

Other names:

1,4-Bis(sec-butylamino)benzene
1,4-Benzenediamine, N,N'-bis(1-methylpropyl)-
p-Phenylenediamine, N,N'-di-sec-butyl-
Antioxidant 22
Du Pont Gasoline Antioxidant No. 22
N,N'-Di-sec-butyl-p-phenyldiamine
N,N'-Di-sec-butylparaphenylenediamine
Tenamene 2
Topanol M
N,N'-Di-sek.butyl-p-fenylendiamin
N,N'-Di-s-butyl-p-phenylenediamine
N,N'-Di-sec-butyl-1,4-benzenediamine
Kerobit BPD
N,N'-Bis(1-methylpropyl)-1,4-benzenediamine
Naugalube 403
1,4-Benzenediamine, N1,N4-bis(1-methylpropyl)-
NSC 68417
Santoflex 44
UOP 5

Inchi: InChI=1S/C14H24N2/c1-5-11(3)15-13-7-9-14(10-8-13)16-12(4)6-2/h7-12,15-16H,5-6H2,
InchiKey: FSWDLYNGJBGFJH-UHFFFAOYSA-N
Formula: C14H24N2
SMILES: CCC(C)Nc1ccc(NC(C)CC)cc1
Mol. weight [g/mol]: 220.35
CAS: 101-96-2

Physical Properties

Property code	Value	Unit	Source
gf	343.68	kJ/mol	Joback Method
hf	-10.85	kJ/mol	Joback Method
hfus	28.82	kJ/mol	Joback Method
hvap	61.79	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	4.107		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	2058.62	kPa	Joback Method
tb	650.84	K	Joback Method

tc	854.64	K	Joback Method
tf	361.80	K	Joback Method
vc	0.769	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	557.00	J/mol×K	650.84	Joback Method
cpg	574.64	J/mol×K	684.81	Joback Method
cpg	591.25	J/mol×K	718.77	Joback Method
cpg	606.88	J/mol×K	752.74	Joback Method
cpg	621.57	J/mol×K	786.71	Joback Method
cpg	635.36	J/mol×K	820.68	Joback Method
cpg	648.29	J/mol×K	854.64	Joback Method
hvapt	70.30	kJ/mol	438.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	396.00 ± 1.00	K	0.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C101962&Units=SI

Legend

cpg: Ideal gas heat capacity

gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/40-796-4/N-N-di-sec-Butyl-p-phenylenediamine.pdf>

Generated by Cheméo on 2024-04-28 00:55:14.85311139 +0000 UTC m=+16554963.773688701.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.