

Aniline, n,o-di-sec-butyl-

Inchi:	InChI=1S/C14H23N/c1-5-11(3)13-9-7-8-10-14(13)15-12(4)6-2/h7-12,15H,5-6H2,1-4H3
InchiKey:	RNOMOANONIWPTA-UHFFFAOYSA-N
Formula:	C14H23N
SMILES:	CCC(C)Nc1ccccc1C(C)CC
Mol. weight [g/mol]:	205.34

Physical Properties

Property code	Value	Unit	Source
gf	254.29	kJ/mol	Joback Method
hf	-64.32	kJ/mol	Joback Method
hfus	23.72	kJ/mol	Joback Method
hvap	55.36	kJ/mol	Joback Method
log10ws	-4.45		Crippen Method
logp	4.410		Crippen Method
mcvol	194.340	ml/mol	McGowan Method
pc	2034.55	kPa	Joback Method
tb	600.67	K	Joback Method
tc	804.33	K	Joback Method
tf	309.14	K	Joback Method
vc	0.735	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.68	J/molxK	600.67	Joback Method
cpg	517.94	J/molxK	634.61	Joback Method
cpg	535.18	J/molxK	668.56	Joback Method
cpg	551.44	J/molxK	702.50	Joback Method
cpg	566.76	J/molxK	736.45	Joback Method
cpg	581.18	J/molxK	770.39	Joback Method
cpg	594.73	J/molxK	804.33	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6008492&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
hfus:	Enthalpy of fusion 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
tf:	Normal melting (fusion) point
vc:	Critical Volume

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