

Aniline, 4-tert-butyl-n-ethyl-

Inchi:	InChI=1S/C12H19N/c1-5-13-11-8-6-10(7-9-11)12(2,3)4/h6-9,13H,5H2,1-4H3
InchiKey:	MACFBHONLAZILW-UHFFFAOYSA-N
Formula:	C12H19N
SMILES:	CCNc1ccc(C(C)(C)C)cc1
Mol. weight [g/mol]:	177.29

Physical Properties

Property code	Value	Unit	Source
gf	245.17	kJ/mol	Joback Method
hf	-21.23	kJ/mol	Joback Method
hfus	18.17	kJ/mol	Joback Method
hvap	50.38	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	3.416		Crippen Method
mcvol	166.160	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
tb	552.56	K	Joback Method
tc	766.43	K	Joback Method
tf	319.02	K	Joback Method
vc	0.624	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	401.70	J/molxK	552.56	Joback Method
cpg	419.13	J/molxK	588.20	Joback Method
cpg	435.45	J/molxK	623.85	Joback Method
cpg	450.73	J/molxK	659.49	Joback Method
cpg	465.02	J/molxK	695.14	Joback Method
cpg	478.37	J/molxK	730.78	Joback Method
cpg	490.86	J/molxK	766.43	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6008476&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
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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