Aniline, 4-tert-amyl-2-methyl-

Inchi: InChI=1S/C12H19N/c1-5-12(3,4)10-6-7-11(13)9(2)8-10/h6-8H,5,13H2,1-4H3
InchiKey: YPSTYABUNGSLQO-UHFFFAOYSA-N
Formula: C12H19N
SMILES: CCC(C)(C)c1ccc(N)c(C)c1
Mol. weight [g/mol]: 177.29

Physical Properties

Property code	Value	Unit	Source
gf	212.60	kJ/mol	Joback Method
hf	-52.38	kJ/mol	Joback Method
hfus	17.88	kJ/mol	Joback Method
hvap	55.25	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	3.265		Crippen Method
mcvol	166.160	ml/mol	McGowan Method
pc	2517.59	kPa	Joback Method
tb	579.90	K	Joback Method
tc	803.73	K	Joback Method
tf	362.14	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	413.91	J/mol×K	579.90	Joback Method
cpg	430.72	J/mol×K	617.21	Joback Method
cpg	446.46	J/mol×K	654.51	Joback Method
cpg	461.16	J/mol×K	691.82	Joback Method
cpg	474.91	J/mol×K	729.12	Joback Method
cpg	487.74	J/mol×K	766.43	Joback Method
cpg	499.74	J/mol×K	803.73	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=B6008475&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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