Aniline, 2,4-dimethyl-6-tert-butyl-

Inchi: InChI=1S/C12H19N/c1-8-6-9(2)11(13)10(7-8)12(3,4)5/h6-7H,13H2,1-5H3
InchiKey: SJMVAOMOFSHXEH-UHFFFAOYSA-N
Formula: C12H19N
SMILES: Cc1cc(C)c(N)c(C(C)(C)C)c1
Mol. weight [g/mol]: 177.29
CAS: 35735-32-1

Physical Properties

Property code	Value	Unit	Source
gf	202.97	kJ/mol	Joback Method
hf	-63.85	kJ/mol	Joback Method
hfus	17.49	kJ/mol	Joback Method
hvap	55.91	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.183		Crippen Method
mcvol	166.160	ml/mol	McGowan Method
pc	2480.12	kPa	Joback Method
tb	584.88	K	Joback Method
tc	809.73	K	Joback Method
tf	374.66	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	413.68	J/mol×K	584.88	Joback Method
cpg	430.20	J/mol×K	622.36	Joback Method
cpg	445.70	J/mol×K	659.83	Joback Method
cpg	460.22	J/mol×K	697.31	Joback Method
cpg	473.82	J/mol×K	734.78	Joback Method
cpg	486.55	J/mol×K	772.26	Joback Method
cpg	498.46	J/mol×K	809.73	Joback Method

Sources

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=C35735321&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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