Aniline, n-tert-butyl-

Inchi: InChI=1S/C10H15N/c1-10(2,3)11-9-7-5-4-6-8-9/h4-8,11H,1-3H3
InchiKey: ABRWESLGGMHKEA-UHFFFAOYSA-N
Formula: C10H15N
SMILES: CC(C)(C)Nc1ccccc1
Mol. weight [g/mol]: 149.23
CAS: 937-33-7

Physical Properties

Property code	Value	Unit	Source
gf	237.96	kJ/mol	Joback Method
hf	31.52	kJ/mol	Joback Method
hfus	13.38	kJ/mol	Joback Method
hvap	45.27	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.897		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
tb	501.82	K	Joback Method
tc	721.82	K	Joback Method
tf	283.96	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.55	J/mol×K	501.82	Joback Method
cpg	324.02	J/mol×K	538.49	Joback Method
cpg	339.35	J/mol×K	575.15	Joback Method
cpg	353.61	J/mol×K	611.82	Joback Method
cpg	366.86	J/mol×K	648.49	Joback Method
cpg	379.16	J/mol×K	685.15	Joback Method
cpg	390.58	J/mol×K	721.82	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C937337&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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