N-butyl-p-toluidine

Inchi:	InChI=1S/C11H17N/c1-3-4-9-12-11-7-5-10(2)6-8-11/h5-8,12H,3-4,9H2,1-2H3
InchiKey:	FPHFMZTUFVNDQL-UHFFFAOYSA-N
Formula:	C11H17N
SMILES:	CCCCNc1ccc(C)cc1
Mol. weight [g/mol]:	163.26
CAS:	10387-24-3

Physical Properties

Property code	Value	Unit	Source
gf	233.91	kJ/mol	Joback Method
hf	8.16	kJ/mol	Joback Method
hfus	23.00	kJ/mol	Joback Method
hvap	49.45	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	3.207		Crippen Method
mcvol	152.070	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
tb	532.91	K	Joback Method
tc	737.35	K	Joback Method
tf	305.33	K	Joback Method
vc	0.579	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.85	J/mol×K	532.91	Joback Method
cpg	366.50	J/mol×K	566.98	Joback Method
cpg	381.31	J/mol×K	601.06	Joback Method
cpg	395.29	J/mol×K	635.13	Joback Method
cpg	408.50	J/mol×K	669.20	Joback Method
cpg	420.94	J/mol×K	703.27	Joback Method
cpg	432.67	J/mol×K	737.35	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10387243&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

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