

p-Butoxytoluene

Other names:	n-Butyl p-tolyl ether 4-(n-Butoxy)toluene Benzene, 1-butoxy-4-methyl- butyl p-tolyl ether
Inchi:	InChI=1S/C11H16O/c1-3-4-9-12-11-7-5-10(2)6-8-11/h5-8H,3-4,9H2,1-2H3
InchiKey:	AGARRLZBNOJWLG-UHFFFAOYSA-N
Formula:	C11H16O
SMILES:	CCCCOc1ccc(C)cc1
Mol. weight [g/mol]:	164.24
CAS:	10519-06-9

Physical Properties

Property code	Value	Unit	Source
gf	39.52	kJ/mol	Joback Method
hf	-177.53	kJ/mol	Joback Method
hfus	19.09	kJ/mol	Joback Method
hvap	45.43	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	3.174		Crippen Method
mcvol	147.960	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
tb	505.16	K	Joback Method
tc	706.73	K	Joback Method
tf	274.90	K	Joback Method
vc	0.561	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.06	J/mol×K	505.16	Joback Method
cpg	341.32	J/mol×K	538.75	Joback Method
cpg	355.85	J/mol×K	572.35	Joback Method
cpg	369.68	J/mol×K	605.94	Joback Method
cpg	382.80	J/mol×K	639.54	Joback Method

cpg	395.24	J/mol×K	673.13	Joback Method
cpg	407.02	J/mol×K	706.73	Joback Method
dvisc	0.0019708	Paxs	274.90	Joback Method
dvisc	0.0010326	Paxs	313.28	Joback Method
dvisc	0.0006230	Paxs	351.65	Joback Method
dvisc	0.0004152	Paxs	390.03	Joback Method
dvisc	0.0002975	Paxs	428.41	Joback Method
dvisc	0.0002253	Paxs	466.78	Joback Method
dvisc	0.0001779	Paxs	505.16	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10519069&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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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