Phenol, 3-butoxy-

Other names: 3-butoxyphenol
Inchi: InChI=1S/C10H14O2/c1-2-3-7-12-10-6-4-5-9(11)8-10/h4-6,8,11H,2-3,7H2,1H3
InchiKey: VGIJZDWQVCXVNL-UHFFFAOYSA-N
Formula: C10H14O2
SMILES: CCCCOc1cccc(O)c1
Mol. weight [g/mol]: 166.22
CAS: 18979-72-1

Physical Properties

Property code	Value	Unit	Source
gf	-113.89	kJ/mol	Joback Method
hf	-322.73	kJ/mol	Joback Method
hfus	22.67	kJ/mol	Joback Method
hvap	55.55	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.571		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3399.94	kPa	Joback Method
tb	557.92	K	Joback Method
tc	773.80	K	Joback Method
tf	362.83	K	Joback Method
vc	0.471	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.47	J/mol×K	557.92	Joback Method
cpg	395.13	J/mol×K	737.82	Joback Method
cpg	384.62	J/mol×K	701.84	Joback Method
cpg	373.45	J/mol×K	665.86	Joback Method
cpg	361.58	J/mol×K	629.88	Joback Method
cpg	348.94	J/mol×K	593.90	Joback Method
cpg	405.05	J/mol×K	773.80	Joback Method
dvisc	0.0000427	Pa×s	557.92	Joback Method

dvisc	0.0000659	Pa×s	525.41	Joback Method
dvisc	0.0001078	Pa×s	492.89	Joback Method
dvisc	0.0001891	Pa×s	460.38	Joback Method
dvisc	0.0003612	Pa×s	427.86	Joback Method
dvisc	0.0007674	Pa×s	395.35	Joback Method
dvisc	0.0018663	Pa×s	362.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18979721&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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