p-di-n-Propoxybenzene

Other names: Benzene, 1,4-dipropoxy-
1,4-Dipropoxybenzene
Inchi: InChI=1S/C12H18O2/c1-3-9-13-11-5-7-12(8-6-11)14-10-4-2/h5-8H,3-4,9-10H2,1-2H3
InchiKey: PASBRBFJGLGYIM-UHFFFAOYSA-N
Formula: C12H18O2
SMILES: CCCOc1ccc(OCCC)cc1
Mol. weight [g/mol]: 194.27
CAS: 3898-41-7

Physical Properties

Property code	Value	Unit	Source
gf	-57.06	kJ/mol	Joback Method
hf	-330.39	kJ/mol	Joback Method
hfus	22.86	kJ/mol	Joback Method
hvap	50.06	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	3.264		Crippen Method
mcvol	167.920	ml/mol	McGowan Method
pc	2293.71	kPa	Joback Method
tb	550.46	K	Joback Method
tc	747.58	K	Joback Method
tf	308.40	K	Joback Method
vc	0.635	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.56	J/mol×K	550.46	Joback Method
cpg	414.33	J/mol×K	583.31	Joback Method
cpg	429.38	J/mol×K	616.17	Joback Method
cpg	443.72	J/mol×K	649.02	Joback Method
cpg	457.36	J/mol×K	681.87	Joback Method
cpg	470.30	J/mol×K	714.73	Joback Method
cpg	482.54	J/mol×K	747.58	Joback Method

dvisc	0.0014761	Pa×s	308.40	Joback Method
dvisc	0.0007899	Pa×s	348.74	Joback Method
dvisc	0.0004813	Pa×s	389.09	Joback Method
dvisc	0.0003218	Pa×s	429.43	Joback Method
dvisc	0.0002306	Pa×s	469.77	Joback Method
dvisc	0.0001742	Pa×s	510.12	Joback Method
dvisc	0.0001371	Pa×s	550.46	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=C3898417&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
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