(pentyloxy)benzene

Inchi: InChI=1S/C11H16O/c1-2-3-7-10-12-11-8-5-4-6-9-11/h4-6,8-9H,2-3,7,10H2,1H3
InchiKey: HPUOAJPGWQQRNT-UHFFFAOYSA-N
Formula: C11H16O
SMILES: CCCCCOc1ccccc1
Mol. weight [g/mol]: 164.24
CAS: 2050-04-6

Physical Properties

Property code	Value	Unit	Source
gf	49.15	kJ/mol	Joback Method
hf	-166.06	kJ/mol	Joback Method
hfus	19.47	kJ/mol	Joback Method
hvap	44.77	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.256		Crippen Method
mcvol	147.960	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
tb	500.18	K	Joback Method
tc	700.57	K	Joback Method
tf	262.38	K	Joback Method
vc	0.561	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.53	J/mol×K	500.18	Joback Method
cpg	341.15	J/mol×K	533.58	Joback Method
cpg	355.99	J/mol×K	566.98	Joback Method
cpg	370.07	J/mol×K	600.38	Joback Method
cpg	383.41	J/mol×K	633.78	Joback Method
cpg	396.02	J/mol×K	667.17	Joback Method
cpg	407.94	J/mol×K	700.57	Joback Method
dvisc	0.0028054	Pa×s	262.38	Joback Method
dvisc	0.0013237	Pa×s	302.01	Joback Method

dvisc	0.0007435	Pa×s	341.65	Joback Method
dvisc	0.0004708	Pa×s	381.28	Joback Method
dvisc	0.0003249	Pa×s	420.91	Joback Method
dvisc	0.0002390	Pa×s	460.55	Joback Method
dvisc	0.0001846	Pa×s	500.18	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2050046&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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