

Phenol, 4-(pentyloxy)-

Other names:	Phenol, p-(pentyloxy)- p-(Pentyloxy)phenol p-n-Pentyloxyphenol Amol p-n-Amyloxyphenol 4-pentyloxyphenol
Inchi:	InChI=1S/C11H16O2/c1-2-3-4-9-13-11-7-5-10(12)6-8-11/h5-8,12H,2-4,9H2,1H3
InchiKey:	JCLFHZLOKITRCE-UHFFFAOYSA-N
Formula:	C11H16O2
SMILES:	CCCCCOc1ccc(O)cc1
Mol. weight [g/mol]:	180.24
CAS:	18979-53-8

Physical Properties

Property code	Value	Unit	Source
gf	-105.47	kJ/mol	Joback Method
hf	-343.37	kJ/mol	Joback Method
hfus	25.26	kJ/mol	Joback Method
hvap	57.78	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.961		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
tb	580.80	K	Joback Method
tc	793.05	K	Joback Method
tf	374.10	K	Joback Method
vc	0.527	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	382.38	J/molxK	580.80	Joback Method
cpg	396.62	J/molxK	616.18	Joback Method
cpg	410.01	J/molxK	651.55	Joback Method

cpg	422.61	J/molxK	686.93	Joback Method
cpg	434.49	J/molxK	722.30	Joback Method
cpg	445.69	J/molxK	757.68	Joback Method
cpg	456.29	J/molxK	793.05	Joback Method
dvisc	0.0015406	Paxs	374.10	Joback Method
dvisc	0.0006233	Paxs	408.55	Joback Method
dvisc	0.0002903	Paxs	443.00	Joback Method
dvisc	0.0001510	Paxs	477.45	Joback Method
dvisc	0.0000857	Paxs	511.90	Joback Method
dvisc	0.0000523	Paxs	546.35	Joback Method
dvisc	0.0000338	Paxs	580.80	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=C18979538&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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