

p-Nonyloxybenzoic acid

Other names:	4-n-Nonyloxybenzoic acid
Inchi:	InChI=1S/C16H24O3/c1-2-3-4-5-6-7-8-13-19-15-11-9-14(10-12-15)16(17)18/h9-12H,2-8,
InchiKey:	BOZLUAUKDKKZHJ-UHFFFAOYSA-N
Formula:	C16H24O3
SMILES:	CCCCCCCCCOc1ccc(C(=O)O)cc1
Mol. weight [g/mol]:	264.36
CAS:	15872-43-2

Physical Properties

Property code	Value	Unit	Source
gf	-184.12	kJ/mol	Joback Method
hf	-545.54	kJ/mol	Joback Method
hfus	37.72	kJ/mol	Joback Method
hvap	79.98	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.514		Crippen Method
mcvol	225.850	ml/mol	McGowan Method
pc	1890.36	kPa	Joback Method
tb	765.61	K	Joback Method
tc	956.17	K	Joback Method
tf	365.20 ± 1.00	K	NIST Webbook
vc	0.867	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	663.20	J/mol×K	765.61	Joback Method
cpg	726.08	J/mol×K	924.41	Joback Method
cpg	715.07	J/mol×K	892.65	Joback Method
cpg	703.29	J/mol×K	860.89	Joback Method
cpg	690.74	J/mol×K	829.13	Joback Method
cpg	677.38	J/mol×K	797.37	Joback Method
cpg	736.37	J/mol×K	956.17	Joback Method
dvisc	0.0000240	Pa×s	765.61	Joback Method

dvisc	0.0000353	Pa×s	711.67	Joback Method
dvisc	0.0000553	Pa×s	657.74	Joback Method
dvisc	0.0000937	Pa×s	603.81	Joback Method
dvisc	0.0001762	Pa×s	549.87	Joback Method
dvisc	0.0003802	Pa×s	495.94	Joback Method
dvisc	0.0009893	Pa×s	442.00	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15872432&Units=SI

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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