

Dodecyl p-hydroxybenzoate

Other names:	n-Dodecyl 4-hydroxybenzoate Benzoic acid, 4-hydroxy-, dodecyl ester Benzoic acid, p-hydroxy-, dodecyl ester Dodecyl 4-hydroxybenzoate p-Hydroxybenzoic acid dodecyl ester p-Oxybenzoesaureduodecylester
Inchi:	InChI=1S/C19H30O3/c1-2-3-4-5-6-7-8-9-10-11-16-22-19(21)17-12-14-18(20)15-13-17/h1
InchiKey:	BAYSQTBAJQRACX-UHFFFAOYSA-N
Formula:	C19H30O3
SMILES:	CCCCCCCCCCCCOC(=O)c1ccc(O)cc1
Mol. weight [g/mol]:	306.44
CAS:	2664-60-0

Physical Properties

Property code	Value	Unit	Source
gf	-167.03	kJ/mol	Joback Method
hf	-621.07	kJ/mol	Joback Method
hfus	47.58	kJ/mol	Joback Method
hvap	82.33	kJ/mol	Joback Method
log10ws	-5.87		Crippen Method
logp	5.470		Crippen Method
mcvol	268.120	ml/mol	McGowan Method
pc	1579.71	kPa	Joback Method
tb	817.71	K	Joback Method
tc	1019.16	K	Joback Method
tf	514.19	K	Joback Method
vc	0.982	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	830.62	J/mol×K	817.71	Joback Method
cpg	847.12	J/mol×K	851.29	Joback Method
cpg	862.78	J/mol×K	884.86	Joback Method

cpg	877.65	J/molxK	918.44	Joback Method
cpg	891.82	J/molxK	952.01	Joback Method
cpg	905.34	J/molxK	985.59	Joback Method
cpg	918.30	J/molxK	1019.16	Joback Method
dvisc	0.0001720	Paxs	514.19	Joback Method
dvisc	0.0000718	Paxs	564.78	Joback Method
dvisc	0.0000346	Paxs	615.36	Joback Method
dvisc	0.0000186	Paxs	665.95	Joback Method
dvisc	0.0000110	Paxs	716.54	Joback Method
dvisc	0.0000069	Paxs	767.12	Joback Method
dvisc	0.0000046	Paxs	817.71	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C2664600&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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