

2,3-dihydroxypropyl 2-(6-methoxynaphthalen-2-yl)propanoate

Inchi:	InChI=1S/C17H20O5/c1-11(17(20)22-10-15(19)9-18)12-3-4-14-8-16(21-2)6-5-13(14)7-12
InchiKey:	NQGWSPZQESAHBV-UHFFFAOYSA-N
Formula:	C17H20O5
SMILES:	COc1ccc2cc(C(C)C(=O)OCC(O)CO)ccc2c1
Mol. weight [g/mol]:	304.34

Physical Properties

Property code	Value	Unit	Source
gf	-325.38	kJ/mol	Joback Method
hf	-681.59	kJ/mol	Joback Method
hfus	35.17	kJ/mol	Joback Method
hvap	102.82	kJ/mol	Joback Method
log10ws	-2.62		Aqueous Solubility Prediction Method
logp	1.848		Crippen Method
mcvol	232.220	ml/mol	McGowan Method
pc	2322.54	kPa	Joback Method
tb	926.17	K	Joback Method
tc	1138.50	K	Joback Method
tf	551.54	K	Joback Method
vc	0.870	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	724.17	J/molxK	926.17	Joback Method
cpg	734.81	J/molxK	961.56	Joback Method
cpg	744.61	J/molxK	996.95	Joback Method
cpg	753.62	J/molxK	1032.34	Joback Method
cpg	761.86	J/molxK	1067.72	Joback Method
cpg	769.38	J/molxK	1103.11	Joback Method
cpg	776.22	J/molxK	1138.50	Joback Method
dvisc	0.0001693	Paxs	551.54	Joback Method
dvisc	0.0000609	Paxs	613.98	Joback Method

dvisc	0.0000264	Paxs	676.42	Joback Method
dvisc	0.0000132	Paxs	738.86	Joback Method
dvisc	0.0000074	Paxs	801.29	Joback Method
dvisc	0.0000045	Paxs	863.73	Joback Method
dvisc	0.0000029	Paxs	926.17	Joback Method

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method:

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

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

Latest version available from:

<https://www.cheméo.com/cid/107-682-6/2-3-dihydroxypropyl-2-6-methoxynaphthalen-2-yl-propanoate.pdf>

Generated by Cheméo on 2024-05-03 08:25:03.033205547 +0000 UTC m=+17013951.953782859.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.