

4-(n-Decyloxy)benzoic acid,4-(n-hexyloxy)phenyl ether

Other names:	4-n-Hexoxyphenyl-4'-n-decyloxybenzoate
Inchi:	InChI=1S/C29H42O4/c1-3-5-7-9-10-11-12-14-24-31-26-17-15-25(16-18-26)29(30)33-28-
InchiKey:	JBMARNOUPBCWIL-UHFFFAOYSA-N
Formula:	C29H43O4
SMILES:	CCCCCCCCCOc1ccc(C(=O)Oc2ccc(OCCCCC)cc2)cc1
Mol. weight [g/mol]:	455.65
CAS:	68162-09-4

Physical Properties

Property code	Value	Unit	Source
gf	-45.06	kJ/mol	Joback Method
hf	-701.01	kJ/mol	Joback Method
hfus	63.33	kJ/mol	Joback Method
hvap	100.00	kJ/mol	Joback Method
log10ws	-9.66		Crippen Method
logp	8.384		Crippen Method
mcvol	391.130	ml/mol	McGowan Method
pc	886.83	kPa	Joback Method
tb	1047.37	K	Joback Method
tc	1283.00	K	Joback Method
tf	611.09	K	Joback Method
vc	1.504	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1407.09	J/molxK	1283.00	Joback Method
cpg	1338.57	J/molxK	1047.37	Joback Method
cpg	1354.45	J/molxK	1086.64	Joback Method
cpg	1368.46	J/molxK	1125.91	Joback Method
cpg	1380.68	J/molxK	1165.19	Joback Method
cpg	1391.15	J/molxK	1204.46	Joback Method
cpg	1399.93	J/molxK	1243.73	Joback Method
dvisc	0.0000120	Paxs	1047.37	Joback Method

dvisc	0.0001417	Paxs	611.09	Joback Method
dvisc	0.0000755	Paxs	683.80	Joback Method
dvisc	0.0000454	Paxs	756.52	Joback Method
dvisc	0.0000298	Paxs	829.23	Joback Method
dvisc	0.0000210	Paxs	901.94	Joback Method
dvisc	0.0000156	Paxs	974.66	Joback Method
hfust	31.70	kJ/mol	334.85	NIST Webbook

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=C68162094&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
hfust:	Enthalpy of fusion at a given temperature
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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