

Isophthalic acid, 2-isopropoxyphenyl dodecyl ester

Inchi:	InChI=1S/C29H40O5/c1-4-5-6-7-8-9-10-11-12-15-21-32-28(30)24-17-16-18-25(22-24)29
InchiKey:	CPRMJROBVIARDO-UHFFFAOYSA-N
Formula:	C29H40O5
SMILES:	CCCCCCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccccc2OC(C)C)c1
Mol. weight [g/mol]:	468.62

Physical Properties

Property code	Value	Unit	Source
gf	-176.42	kJ/mol	Joback Method
hf	-818.87	kJ/mol	Joback Method
hfus	61.41	kJ/mol	Joback Method
hvap	106.36	kJ/mol	Joback Method
log10ws	-9.47		Crippen Method
logp	7.771		Crippen Method
mcvol	392.700	ml/mol	McGowan Method
pc	925.55	kPa	Joback Method
rinpol	3529.00		NIST Webbook
rinpol	3529.00		NIST Webbook
tb	1100.80	K	Joback Method
tc	1349.52	K	Joback Method
tf	646.02	K	Joback Method
vc	1.504	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1347.14	J/molxK	1100.80	Joback Method
cpg	1360.22	J/molxK	1142.25	Joback Method
cpg	1371.27	J/molxK	1183.71	Joback Method
cpg	1380.33	J/molxK	1225.16	Joback Method
cpg	1387.49	J/molxK	1266.61	Joback Method
cpg	1392.80	J/molxK	1308.07	Joback Method
cpg	1396.34	J/molxK	1349.52	Joback Method
dvisc	0.0001237	Paxs	646.02	Joback Method

dvisc	0.0000656	Paxs	721.82	Joback Method
dvisc	0.0000393	Paxs	797.61	Joback Method
dvisc	0.0000257	Paxs	873.41	Joback Method
dvisc	0.0000180	Paxs	949.21	Joback Method
dvisc	0.0000133	Paxs	1025.00	Joback Method
dvisc	0.0000102	Paxs	1100.80	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=U344436&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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