

Isophthalic acid, di(undec-2-en-1-yl) ester

Inchi: InChI=1S/C30H46O4/c1-3-5-7-9-11-13-15-17-19-24-33-29(31)27-22-21-23-28(26-27)30(32)
InchiKey: YHWOVSJMYXLLGW-XPWSMXQVSA-N
Formula: C30H46O4
SMILES: CCCCCCCCC=CCOC(=O)c1cccc(C(=O)OCC=CCCCCCCC)c1
Mol. weight [g/mol]: 470.68

Physical Properties

Property code	Value	Unit	Source
gf	-2.90	kJ/mol	Joback Method
hf	-692.63	kJ/mol	Joback Method
hfus	73.09	kJ/mol	Joback Method
hvap	103.54	kJ/mol	Joback Method
log10ws	-10.04		Crippen Method
logp	8.614		Crippen Method
mvol	416.080	ml/mol	McGowan Method
pc	777.64	kPa	Joback Method
rinpol	3483.00		NIST Webbook
rinpol	3483.00		NIST Webbook
tb	1078.36	K	Joback Method
tc	1328.34	K	Joback Method
tf	600.96	K	Joback Method
vc	1.615	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1439.49	J/molxK	1078.36	Joback Method
cpg	1458.44	J/molxK	1120.02	Joback Method
cpg	1475.90	J/molxK	1161.69	Joback Method
cpg	1492.02	J/molxK	1203.35	Joback Method
cpg	1506.93	J/molxK	1245.02	Joback Method
cpg	1520.76	J/molxK	1286.68	Joback Method
cpg	1533.65	J/molxK	1328.34	Joback Method
dvisc	0.0001569	Paxs	600.96	Joback Method

dvisc	0.0000748	Paxs	680.53	Joback Method
dvisc	0.0000417	Paxs	760.09	Joback Method
dvisc	0.0000259	Paxs	839.66	Joback Method
dvisc	0.0000175	Paxs	919.23	Joback Method
dvisc	0.0000126	Paxs	998.79	Joback Method
dvisc	0.0000095	Paxs	1078.36	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=U343911&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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