

Isophthalic acid, 2-methylprop-2-en-1-yl undecyl ester

Inchi:	InChI=1S/C23H34O4/c1-4-5-6-7-8-9-10-11-12-16-26-22(24)20-14-13-15-21(17-20)23(25)
InchiKey:	VDOVZIWCQHESRM-UHFFFAOYSA-N
Formula:	C23H34O4
SMILES:	<chem>C=C(C)COC(=O)c1cccc(C(=O)OCCCCCCCCCCC)c1</chem>
Mol. weight [g/mol]:	374.51

Physical Properties

Property code	Value	Unit	Source
gf	-142.99	kJ/mol	Joback Method
hf	-666.95	kJ/mol	Joback Method
hfus	51.96	kJ/mol	Joback Method
hvap	87.45	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	6.107		Crippen Method
mcvol	321.750	ml/mol	McGowan Method
pc	1132.91	kPa	Joback Method
rinpol	2806.00		NIST Webbook
rinpol	2806.00		NIST Webbook
tb	906.44	K	Joback Method
tc	1113.48	K	Joback Method
tf	516.51	K	Joback Method
vc	1.246	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1029.01	J/molxK	906.44	Joback Method
cpg	1045.41	J/molxK	940.95	Joback Method
cpg	1060.56	J/molxK	975.45	Joback Method
cpg	1074.52	J/molxK	1009.96	Joback Method
cpg	1087.31	J/molxK	1044.47	Joback Method
cpg	1098.97	J/molxK	1078.97	Joback Method
cpg	1109.54	J/molxK	1113.48	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U343954&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/88-767-4/Isophthalic-acid-2-methylprop-2-en-1-yl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-29 11:33:52.548522854 +0000 UTC m=+16679681.469100170.

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