

Isophthalic acid, cis-tetradec-3-enyl isobutyl ester

Inchi:	InChI=1S/C26H40O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-19-29-25(27)23-17-16-18-24(20)
InchiKey:	BONDHZVIPJVVELM-YPKPFQOOSA-N
Formula:	C26H40O4
SMILES:	CCCCCCCCC=CCCOC(=O)c1cccc(C(=O)OCC(C)C)c1
Mol. weight [g/mol]:	416.59

Physical Properties

Property code	Value	Unit	Source
gf	-119.24	kJ/mol	Joback Method
hf	-732.57	kJ/mol	Joback Method
hfus	59.00	kJ/mol	Joback Method
hvap	94.29	kJ/mol	Joback Method
log10ws	-8.27		Crippen Method
logp	7.133		Crippen Method
mvol	364.020	ml/mol	McGowan Method
pc	949.08	kPa	Joback Method
rinpol	3013.00		NIST Webbook
rinpol	3013.00		NIST Webbook
tb	982.24	K	Joback Method
tc	1202.54	K	Joback Method
tf	545.96	K	Joback Method
vc	1.405	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1215.64	J/molxK	982.24	Joback Method
cpg	1232.81	J/molxK	1018.96	Joback Method
cpg	1248.59	J/molxK	1055.67	Joback Method
cpg	1263.05	J/molxK	1092.39	Joback Method
cpg	1276.25	J/molxK	1129.10	Joback Method
cpg	1288.24	J/molxK	1165.82	Joback Method
cpg	1299.11	J/molxK	1202.54	Joback Method
dvisc	0.0003119	Paxs	545.96	Joback Method

dvisc	0.0001471	Paxs	618.67	Joback Method
dvisc	0.0000812	Paxs	691.39	Joback Method
dvisc	0.0000502	Paxs	764.10	Joback Method
dvisc	0.0000338	Paxs	836.81	Joback Method
dvisc	0.0000242	Paxs	909.53	Joback Method
dvisc	0.0000182	Paxs	982.24	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U356729&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
log_p:	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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