

# Isophthalic acid, cis-tetradec-3-enyl isoheptyl ester

Inchi:	InChI=1S/C28H44O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-21-31-27(29)25-19-16-20-26(23
InchiKey:	OJOZKYZRYFPQDL-YPKPFQOOSA-N
Formula:	C28H44O4
SMILES:	CCCCCCCCC=CCCOC(=O)c1cccc(C(=O)OCCCC(C)C)c1
Mol. weight [g/mol]:	444.65

## Physical Properties

Property code	Value	Unit	Source
gf	-102.40	kJ/mol	Joback Method
hf	-773.85	kJ/mol	Joback Method
hfus	64.18	kJ/mol	Joback Method
hvap	98.74	kJ/mol	Joback Method
log10ws	-9.10		Crippen Method
logp	7.913		Crippen Method
mvol	392.200	ml/mol	McGowan Method
pc	846.03	kPa	Joback Method
rinpol	3216.00		NIST Webbook
tb	1028.00	K	Joback Method
tc	1260.74	K	Joback Method
tf	568.50	K	Joback Method
vc	1.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1341.20	J/molxK	1028.00	Joback Method
cpg	1415.74	J/molxK	1221.95	Joback Method
cpg	1403.61	J/molxK	1183.16	Joback Method
cpg	1390.17	J/molxK	1144.37	Joback Method
cpg	1375.35	J/molxK	1105.58	Joback Method
cpg	1359.06	J/molxK	1066.79	Joback Method
cpg	1426.66	J/molxK	1260.74	Joback Method
dvisc	0.0000134	Paxs	1028.00	Joback Method
dvisc	0.0000179	Paxs	951.42	Joback Method

dvisc	0.0000251	Paxs	874.83	Joback Method
dvisc	0.0000375	Paxs	798.25	Joback Method
dvisc	0.0000612	Paxs	721.67	Joback Method
dvisc	0.0001121	Paxs	645.08	Joback Method
dvisc	0.0002416	Paxs	568.50	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U356732&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356732&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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