

# Isophthalic acid, hexyl 2-methylcyclohexyl ester

Inchi:	InChI=1S/C21H30O4/c1-3-4-5-8-14-24-20(22)17-11-9-12-18(15-17)21(23)25-19-13-7-6-
InchiKey:	ZASGAFMBSYXEKC-UHFFFAOYSA-N
Formula:	C21H30O4
SMILES:	CCCCCOC(=O)c1cccc(C(=O)OC2CCCCC2C)c1
Mol. weight [g/mol]:	346.46

## Physical Properties

Property code	Value	Unit	Source
gf	-222.38	kJ/mol	Joback Method
hf	-707.33	kJ/mol	Joback Method
hfus	42.28	kJ/mol	Joback Method
hvap	83.71	kJ/mol	Joback Method
log10ws	-6.33		Crippen Method
logp	5.159		Crippen Method
mcvol	287.010	ml/mol	McGowan Method
pc	1419.71	kPa	Joback Method
rinpol	2662.00		NIST Webbook
rinpol	2662.00		NIST Webbook
tb	879.00	K	Joback Method
tc	1096.93	K	Joback Method
tf	512.83	K	Joback Method
vc	1.083	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.51	J/molxK	879.00	Joback Method
cpg	953.76	J/molxK	915.32	Joback Method
cpg	969.45	J/molxK	951.64	Joback Method
cpg	983.59	J/molxK	987.96	Joback Method
cpg	996.23	J/molxK	1024.28	Joback Method
cpg	1007.37	J/molxK	1060.60	Joback Method
cpg	1017.06	J/molxK	1096.93	Joback Method
dvisc	0.0006680	Paxs	512.83	Joback Method

dvisc	0.0003674	Paxs	573.86	Joback Method
dvisc	0.0002267	Paxs	634.89	Joback Method
dvisc	0.0001522	Paxs	695.91	Joback Method
dvisc	0.0001090	Paxs	756.94	Joback Method
dvisc	0.0000820	Paxs	817.97	Joback Method
dvisc	0.0000642	Paxs	879.00	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U345751&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345751&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>

## 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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