

# Isophthalic acid, di(2-cyclohexylethyl) ester

<b>Inchi:</b>	InChI=1S/C24H34O4/c25-23(27-16-14-19-8-3-1-4-9-19)21-12-7-13-22(18-21)24(26)28-1
<b>InchiKey:</b>	ZOLLWCITYOPDLK-UHFFFAOYSA-N
<b>Formula:</b>	C24H34O4
<b>SMILES:</b>	O=C(OCCC1CCCCC1)c1cccc(C(=O)OCCC2CCCCC2)c1
<b>Mol. weight [g/mol]:</b>	386.52

## Physical Properties

Property code	Value	Unit	Source
gf	-164.96	kJ/mol	Joback Method
hf	-694.59	kJ/mol	Joback Method
hfus	40.81	kJ/mol	Joback Method
hvap	91.13	kJ/mol	Joback Method
log10ws	-7.12		Crippen Method
logp	5.941		Crippen Method
mvol	318.420	ml/mol	McGowan Method
pc	1367.69	kPa	Joback Method
rinpol	3222.00		NIST Webbook
rinpol	3222.00		NIST Webbook
tb	971.86	K	Joback Method
tc	1208.22	K	Joback Method
tf	558.26	K	Joback Method
vc	1.185	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1109.09	J/molxK	971.86	Joback Method
cpg	1125.66	J/molxK	1011.25	Joback Method
cpg	1140.24	J/molxK	1050.65	Joback Method
cpg	1152.88	J/molxK	1090.04	Joback Method
cpg	1163.64	J/molxK	1129.43	Joback Method
cpg	1172.60	J/molxK	1168.83	Joback Method
cpg	1179.79	J/molxK	1208.22	Joback Method
dvisc	0.0004818	Paxs	558.26	Joback Method

dvisc	0.0002401	Paxs	627.19	Joback Method
dvisc	0.0001373	Paxs	696.13	Joback Method
dvisc	0.0000869	Paxs	765.06	Joback Method
dvisc	0.0000593	Paxs	833.99	Joback Method
dvisc	0.0000429	Paxs	902.93	Joback Method
dvisc	0.0000325	Paxs	971.86	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=U343817&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343817&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>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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