

# Isopropyl octacosyl ether

<b>Inchi:</b>	InChI=1S/C31H64O/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26
<b>InchiKey:</b>	DPBYOVJEQQZUGS-UHFFFAOYSA-N
<b>Formula:</b>	C31H64O
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOC(C)C
<b>Mol. weight [g/mol]:</b>	452.84

## Physical Properties

Property code	Value	Unit	Source
gf	102.70	kJ/mol	Joback Method
hf	-820.67	kJ/mol	Joback Method
hfus	73.71	kJ/mol	Joback Method
hvap	86.62	kJ/mol	Joback Method
log10ws	-12.00		Crippen Method
logp	11.574		Crippen Method
mcvol	453.520	ml/mol	McGowan Method
pc	566.08	kPa	Joback Method
rinpol	3117.00		NIST Webbook
rinpol	3117.00		NIST Webbook
tb	930.66	K	Joback Method
tc	1154.47	K	Joback Method
tf	446.36	K	Joback Method
vc	1.784	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1586.69	J/molxK	930.66	Joback Method
cpg	1614.93	J/molxK	967.96	Joback Method
cpg	1641.30	J/molxK	1005.26	Joback Method
cpg	1665.87	J/molxK	1042.57	Joback Method
cpg	1688.75	J/molxK	1079.87	Joback Method
cpg	1710.03	J/molxK	1117.17	Joback Method
cpg	1729.80	J/molxK	1154.47	Joback Method
dvisc	0.0007302	Paxs	446.36	Joback Method

dvisc	0.0002283	Paxs	527.08	Joback Method
dvisc	0.0000972	Paxs	607.79	Joback Method
dvisc	0.0000505	Paxs	688.51	Joback Method
dvisc	0.0000302	Paxs	769.23	Joback Method
dvisc	0.0000198	Paxs	849.94	Joback Method
dvisc	0.0000140	Paxs	930.66	Joback Method

## Sources

<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=U406347&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406347&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvap:</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>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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