

# Docosyl isopropyl ether

<b>Inchi:</b>	InChI=1S/C25H52O/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27
<b>InchiKey:</b>	CPBGIQAHVDNSMJ-UHFFFAOYSA-N
<b>Formula:</b>	C25H52O
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCOC(C)C
<b>Mol. weight [g/mol]:</b>	368.68

## Physical Properties

Property code	Value	Unit	Source
gf	52.18	kJ/mol	Joback Method
hf	-696.83	kJ/mol	Joback Method
hfus	58.17	kJ/mol	Joback Method
hvap	73.27	kJ/mol	Joback Method
log10ws	-9.49		Crippen Method
logp	9.233		Crippen Method
mcvol	368.980	ml/mol	McGowan Method
pc	760.16	kPa	Joback Method
rinpol	2524.00		NIST Webbook
tb	793.38	K	Joback Method
tc	971.44	K	Joback Method
tf	378.74	K	Joback Method
vc	1.448	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1188.00	J/molxK	793.38	Joback Method
cpg	1211.41	J/molxK	823.06	Joback Method
cpg	1233.65	J/molxK	852.73	Joback Method
cpg	1254.78	J/molxK	882.41	Joback Method
cpg	1274.81	J/molxK	912.09	Joback Method
cpg	1293.80	J/molxK	941.76	Joback Method
cpg	1311.77	J/molxK	971.44	Joback Method
dvisc	0.0017125	Paxs	378.74	Joback Method
dvisc	0.0005418	Paxs	447.85	Joback Method

dvisc	0.0002332	Paxs	516.95	Joback Method
dvisc	0.0001224	Paxs	586.06	Joback Method
dvisc	0.0000737	Paxs	655.17	Joback Method
dvisc	0.0000488	Paxs	724.27	Joback Method
dvisc	0.0000348	Paxs	793.38	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=U406344&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406344&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>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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