

# Isopropyl tetracosyl ether

<b>Inchi:</b>	InChI=1S/C27H56O/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>	PHUVVQVFIORWTP-UHFFFAOYSA-N
<b>Formula:</b>	C27H56O
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCOC(C)C
<b>Mol. weight [g/mol]:</b>	396.73

## Physical Properties

Property code	Value	Unit	Source
gf	69.02	kJ/mol	Joback Method
hf	-738.11	kJ/mol	Joback Method
hfus	63.35	kJ/mol	Joback Method
hvap	77.72	kJ/mol	Joback Method
log10ws	-10.32		Crippen Method
logp	10.013		Crippen Method
mcvol	397.160	ml/mol	McGowan Method
pc	685.65	kPa	Joback Method
tb	839.14	K	Joback Method
tc	1028.31	K	Joback Method
tf	401.28	K	Joback Method
vc	1.560	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1318.67	J/molxK	839.14	Joback Method
cpg	1429.38	J/molxK	996.78	Joback Method
cpg	1409.72	J/molxK	965.25	Joback Method
cpg	1388.86	J/molxK	933.72	Joback Method
cpg	1366.77	J/molxK	902.20	Joback Method
cpg	1343.39	J/molxK	870.67	Joback Method
cpg	1447.90	J/molxK	1028.31	Joback Method
dvisc	0.0000259	Paxs	839.14	Joback Method
dvisc	0.0000365	Paxs	766.16	Joback Method
dvisc	0.0000551	Paxs	693.19	Joback Method

dvisc	0.0000920	Paxs	620.21	Joback Method
dvisc	0.0001758	Paxs	547.23	Joback Method
dvisc	0.0004100	Paxs	474.26	Joback Method
dvisc	0.0013017	Paxs	401.28	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406345&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406345&amp;Units=SI</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>hvac:</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>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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