

# Docosyl ethyl ether

**Inchi:** InChI=1S/C24H50O/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-4  
**InchiKey:** LJFGLRWKKTXFJK-UHFFFAOYSA-N  
**Formula:** C24H50O  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCOCC  
**Mol. weight [g/mol]:** 354.65

## Physical Properties

Property code	Value	Unit	Source
gf	46.20	kJ/mol	Joback Method
hf	-670.91	kJ/mol	Joback Method
hfus	59.10	kJ/mol	Joback Method
hvap	71.43	kJ/mol	Joback Method
log10ws	-8.96		Crippen Method
logp	8.845		Crippen Method
mcvol	354.890	ml/mol	McGowan Method
pc	798.43	kPa	Joback Method
rinpol	2491.00		NIST Webbook
rinpol	2491.00		NIST Webbook
tb	770.94	K	Joback Method
tc	944.39	K	Joback Method
tf	382.47	K	Joback Method
vc	1.397	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1123.31	J/molxK	770.94	Joback Method
cpg	1146.09	J/molxK	799.85	Joback Method
cpg	1167.79	J/molxK	828.76	Joback Method
cpg	1188.45	J/molxK	857.67	Joback Method
cpg	1208.10	J/molxK	886.57	Joback Method
cpg	1226.77	J/molxK	915.48	Joback Method
cpg	1244.48	J/molxK	944.39	Joback Method
dvisc	0.0015134	Paxs	382.47	Joback Method

dvisc	0.0005462	Paxs	447.22	Joback Method
dvisc	0.0002551	Paxs	511.96	Joback Method
dvisc	0.0001413	Paxs	576.70	Joback Method
dvisc	0.0000882	Paxs	641.45	Joback Method
dvisc	0.0000601	Paxs	706.19	Joback Method
dvisc	0.0000436	Paxs	770.94	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=U406367&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406367&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>

## 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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