

# 4-(Octylphenyl-3,6-dimethyl-1-cyclohexenyl ether

Inchi:	InChI=1S/C22H34O/c1-4-5-6-7-8-9-10-20-13-15-21(16-14-20)23-22-17-18(2)11-12-19(2)
InchiKey:	TZNILEPZUINWMZ-UHFFFAOYSA-N
Formula:	C22H34O
SMILES:	CCCCCCCCc1ccc(OC2=CC(C)CCC2C)cc1
Mol. weight [g/mol]:	314.50

## Physical Properties

Property code	Value	Unit	Source
gf	169.21	kJ/mol	Joback Method
hf	-324.28	kJ/mol	Joback Method
hfus	41.31	kJ/mol	Joback Method
hvap	70.99	kJ/mol	Joback Method
log10ws	-7.60		Crippen Method
logp	6.918		Crippen Method
mcvol	287.790	ml/mol	McGowan Method
pc	1241.58	kPa	Joback Method
ripol	3107.00		NIST Webbook
tb	775.86	K	Joback Method
tc	981.73	K	Joback Method
tf	415.29	K	Joback Method
vc	1.095	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	892.15	J/molxK	775.86	Joback Method
cpg	913.67	J/molxK	810.17	Joback Method
cpg	933.80	J/molxK	844.48	Joback Method
cpg	952.58	J/molxK	878.79	Joback Method
cpg	970.04	J/molxK	913.10	Joback Method
cpg	986.23	J/molxK	947.41	Joback Method
cpg	1001.19	J/molxK	981.73	Joback Method
dvisc	0.0009883	Paxs	415.29	Joback Method
dvisc	0.0005035	Paxs	475.38	Joback Method

dvisc	0.0002984	Paxs	535.48	Joback Method
dvisc	0.0001966	Paxs	595.58	Joback Method
dvisc	0.0001398	Paxs	655.67	Joback Method
dvisc	0.0001052	Paxs	715.77	Joback Method
dvisc	0.0000828	Paxs	775.86	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R58561&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R58561&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>
<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>

## 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>ripol:</b>	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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