

# Clofoctol, methyl ether

**Inchi:** InChI=1S/C22H28Cl2O/c1-21(2,3)14-22(4,5)17-8-10-20(25-6)16(12-17)11-15-7-9-18(23)  
**InchiKey:** WCOGVAKQAAUJCO-UHFFFAOYSA-N  
**Formula:** C22H28Cl2O  
**SMILES:** COc1ccc(C(C)(C)CC(C)(C)C)cc1Cc1ccc(Cl)cc1Cl  
**Mol. weight [g/mol]:** 379.36

## Physical Properties

Property code	Value	Unit	Source
gf	197.48	kJ/mol	Joback Method
hf	-251.43	kJ/mol	Joback Method
hfus	34.02	kJ/mol	Joback Method
hvap	80.35	kJ/mol	Joback Method
log10ws	-7.81		Crippen Method
logp	7.307		Crippen Method
mcvol	303.670	ml/mol	McGowan Method
pc	1293.00	kPa	Joback Method
rinpol	2523.80		NIST Webbook
rinpol	2523.80		NIST Webbook
tb	866.86	K	Joback Method
tc	1102.08	K	Joback Method
tf	527.53	K	Joback Method
vc	1.145	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	890.76	J/molxK	866.86	Joback Method
cpg	907.58	J/molxK	906.06	Joback Method
cpg	923.17	J/molxK	945.27	Joback Method
cpg	937.64	J/molxK	984.47	Joback Method
cpg	951.11	J/molxK	1023.68	Joback Method
cpg	963.67	J/molxK	1062.88	Joback Method
cpg	975.46	J/molxK	1102.08	Joback Method
dvisc	0.0003130	Paxs	527.53	Joback Method

dvisc	0.0001743	Paxs	584.08	Joback Method
dvisc	0.0001076	Paxs	640.64	Joback Method
dvisc	0.0000719	Paxs	697.19	Joback Method
dvisc	0.0000510	Paxs	753.75	Joback Method
dvisc	0.0000380	Paxs	810.30	Joback Method
dvisc	0.0000294	Paxs	866.86	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=U333470&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U333470&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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