

# Chlorprothixene M (HO-dihydro-), monoacetylated

<b>Inchi:</b>	InChI=1S/C20H22ClNO2S/c1-13(23)24-15-7-9-20-18(12-15)16(5-4-10-22(2)3)17-11-14(2)
<b>InchiKey:</b>	KIOLPMMETRQELR-UHFFFAOYSA-N
<b>Formula:</b>	C20H22ClNO2S
<b>SMILES:</b>	CC(=O)Oc1ccc2c(c1)C(CCCN(C)C)c1cc(Cl)ccc1S2
<b>Mol. weight [g/mol]:</b>	375.91

## Physical Properties

Property code	Value	Unit	Source
gf	281.46	kJ/mol	Joback Method
hf	-97.74	kJ/mol	Joback Method
hfus	47.98	kJ/mol	Joback Method
hvap	88.45	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	5.204		Crippen Method
mcvol	280.290	ml/mol	McGowan Method
pc	1693.51	kPa	Joback Method
rinpola	2800.00		NIST Webbook
rinpola	2800.00		NIST Webbook
tb	906.74	K	Joback Method
tc	1142.51	K	Joback Method
tf	657.54	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	827.34	J/molxK	906.74	Joback Method
cpg	841.74	J/molxK	946.03	Joback Method
cpg	855.22	J/molxK	985.33	Joback Method
cpg	867.89	J/molxK	1024.62	Joback Method
cpg	879.85	J/molxK	1063.92	Joback Method
cpg	891.21	J/molxK	1103.21	Joback Method
cpg	902.08	J/molxK	1142.51	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=R310195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R310195&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>h vap:</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>r in pol:</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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