

# Manool (epi-13)

<b>Other names:</b>	13-epi-Manool, isomer
<b>Inchi:</b>	InChI=1S/C20H34O/c1-7-19(5,21)13-11-16-10-12-18(3,4)17-9-8-15(2)14-20(16,17)6/h7,1
<b>InchiKey:</b>	XQCCGGBPVSNHMQ-CLPROHDKSA-N
<b>Formula:</b>	C20H34O
<b>SMILES:</b>	<chem>C=CC(C)(O)CCC1CCC(C)(C)C2CCC(=C)CC12C</chem>
<b>Mol. weight [g/mol]:</b>	290.48

## Physical Properties

Property code	Value	Unit	Source
gf	171.16	kJ/mol	Joback Method
hf	-296.68	kJ/mol	Joback Method
hfus	19.21	kJ/mol	Joback Method
hvap	72.58	kJ/mol	Joback Method
log10ws	-6.10		Crippen Method
logp	5.502		Crippen Method
mcvol	268.210	ml/mol	McGowan Method
pc	1499.99	kPa	Joback Method
rinpol	1961.00		NIST Webbook
rinpol	1958.00		NIST Webbook
rinpol	1970.00		NIST Webbook
rinpol	1944.00		NIST Webbook
rinpol	1961.00		NIST Webbook
rinpol	1961.00		NIST Webbook
rinpol	1960.00		NIST Webbook
rinpol	1967.00		NIST Webbook
rinpol	1961.00		NIST Webbook
rinpol	1961.00		NIST Webbook
tb	763.49	K	Joback Method
tc	971.09	K	Joback Method
tf	451.44	K	Joback Method
vc	1.004	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	857.58	J/mol×K	763.49	Joback Method
cpg	879.64	J/mol×K	798.09	Joback Method
cpg	901.18	J/mol×K	832.69	Joback Method
cpg	922.44	J/mol×K	867.29	Joback Method
cpg	943.64	J/mol×K	901.89	Joback Method
cpg	965.01	J/mol×K	936.49	Joback Method
cpg	986.78	J/mol×K	971.09	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=R293293&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R293293&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>

## 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>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>mccvol:</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

Latest version available from:

<https://www.chemeo.com/cid/77-593-9/Manool-epi-13.pdf>

Generated by Cheméo on 2024-04-27 17:25:08.438450861 +0000 UTC m=+16527957.359028178.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.