

# Dihydrocapsaicin, O-acetyl-

<b>Inchi:</b>	InChI=1S/C20H31NO4/c1-15(2)9-7-5-6-8-10-20(23)21-14-17-11-12-18(25-16(3)22)19(13)
<b>InchiKey:</b>	FABOGEJIOHNBZ-UHFFFAOYSA-N
<b>Formula:</b>	C20H31NO4
<b>SMILES:</b>	<chem>COc1cc(CNC(=O)CCCCCCC(C)C)ccc1OC(C)=O</chem>
<b>Mol. weight [g/mol]:</b>	349.46

## Physical Properties

Property code	Value	Unit	Source
gf	-170.22	kJ/mol	Joback Method
hf	-683.95	kJ/mol	Joback Method
hfus	47.97	kJ/mol	Joback Method
hvap	88.07	kJ/mol	Joback Method
log10ws	-5.69		Crippen Method
logp	4.233		Crippen Method
mvol	293.760	ml/mol	McGowan Method
pc	1347.68	kPa	Joback Method
rinpol	2736.50		NIST Webbook
rinpol	2736.50		NIST Webbook
tb	895.95	K	Joback Method
tc	1103.67	K	Joback Method
tf	548.60	K	Joback Method
vc	1.125	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.81	J/mol×K	895.95	Joback Method
cpg	952.08	J/mol×K	930.57	Joback Method
cpg	966.12	J/mol×K	965.19	Joback Method
cpg	978.94	J/mol×K	999.81	Joback Method
cpg	990.56	J/mol×K	1034.43	Joback Method
cpg	1001.01	J/mol×K	1069.05	Joback Method
cpg	1010.30	J/mol×K	1103.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U353103&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353103&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.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>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>hvpap:</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>rinppl:</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/48-280-8/Dihydrocapsaicin-O-acetyl.pdf>

Generated by Cheméo on 2024-04-24 13:38:31.075376652 +0000 UTC m=+16255159.995953965.

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