

# (-)-Cannabidiol

<b>Other names:</b>	1,3-Benzenediol, 2-[3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl-, (1R-trans)-Cannabidiol
<b>Inchi:</b>	InChI=1S/C21H30O2/c1-5-6-7-8-16-12-19(22)21(20(23)13-16)18-11-15(4)9-10-17(18)14
<b>InchiKey:</b>	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
<b>Formula:</b>	C21H30O2
<b>SMILES:</b>	<chem>C=C(C)C1CCC(C)=CC1c1c(O)cc(CCCCC)cc1O</chem>
<b>Mol. weight [g/mol]:</b>	314.46
<b>CAS:</b>	13956-29-1

## Physical Properties

Property code	Value	Unit	Source
gf	35.84	kJ/mol	Joback Method
hf	-410.40	kJ/mol	Joback Method
hfus	46.51	kJ/mol	Joback Method
hvap	91.79	kJ/mol	Joback Method
log10ws	-6.10		Crippen Method
logp	5.846		Crippen Method
mcvol	275.270	ml/mol	McGowan Method
pc	1765.41	kPa	Joback Method
rinpwl	2375.00		NIST Webbook
rinpwl	2375.00		NIST Webbook
tb	888.36	K	Joback Method
tc	1119.73	K	Joback Method
tf	589.51	K	Joback Method
vc	0.935	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	902.02	J/mol×K	888.36	Joback Method
cpg	920.75	J/mol×K	926.92	Joback Method
cpg	938.84	J/mol×K	965.48	Joback Method
cpg	956.45	J/mol×K	1004.05	Joback Method
cpg	973.76	J/mol×K	1042.61	Joback Method

cpg	990.91	J/mol×K	1081.17	Joback Method
cpg	1008.09	J/mol×K	1119.73	Joback Method
hfust	28.40	kJ/mol	340.70	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13956291&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13956291&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>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>hfust:</b>	Enthalpy of fusion at a given temperature
<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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