

# Dronabinol

## Other names:

«DELTA»9-Tetrahydrocannabinol  
6H-Dibenzo[b,d]pyran-1-ol, 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-,  
(6aR,trans)-  
«DELTA»1-Tetrahydrocannabinol  
«DELTA»1-THC  
«DELTA»9-trans-Tetrahydrocannabinol  
(-)-«DELTA»1-Tetrahydrocannabinol  
(-)-«DELTA»9-trans-Tetrahydrocannabinol  
(-)-«DELTA»9-Tetrahydrocannabinol  
(-)-«DELTA»9-THC  
(-)-trans-«DELTA»9-Tetrahydrocannabinol  
(l)-«DELTA»1-Tetrahydrocannabinol  
L-«DELTA»1-trans-Tetrahydrocannabinol  
L-trans-«DELTA»9-Tetrahydrocannabinol  
trans-«DELTA»9-Tetrahydrocannabinol, (-)-  
Abbott 40566  
Cannabinol, «DELTA»1-Tetrahydro-  
SP 104  
Tetrahydrocannabinol  
«DELTA»9-THC  
Cannabinol, 1-trans-«DELTA»9-tetrahydro-  
QCD 84924  
1-trans-«DELTA»9-tetrahydrocannabinol  
6,6,9-Trimethyl-3-pentyl-7,8,9,10-tetrahydro-6H-dibenzo(b,d)pyran-1-ol  
6H-Dibenzo(b,d)pyran-1-ol, 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-,  
(6aR,10aR)-  
6H-Dibenzo(b,d)pyran-1-ol, 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-, trans-  
(6aR,10aR)-6a,7,8,10a-Tetrahydro-6,6,9-trimethyl-3-pentyl-6H-dibenzo[b,d]pyran-1-ol  
Marinol  
(-)-trans-«DELTA»1-Tetrahydrocannabinol  
(-)-trans-«DELTA»9-THC  
NSC-134454  
Delta 9-THC  
Delta-9-Tetrahydrocannabinol  
6H-Dibenzo(b,d)pyran-1-ol, 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-  
trans-«delta»9-Tetrahydrocannabinol  
14C-«delta»1-Tetrahydrocannabinol  
«delta»(sup9)-Thc  
(-)-«delta»(sup9)-trans-Tetrahydrocannabinol  
Cannabinol, 1-trans-«delta»(sup9)-tetrahydro-  
1-trans-«delta»(sup9)-tetrahydrocannabinol  
Primolut

Exocyclic «delta»(9)(11)-Tetrahydrocannabinol

6H-Dibenzo[b,d]pyran-1-ol, 6a,7,8,10a-tetrahydro-6,9,9-trimethyl-3-pentyl-,  
(6a,trans)-6,6,9-Trimethyl-3-pentyl-6a,7,8,10a-tetrahydro-6H-benzo[c]chromen-1-ol

**Inchi:** InChI=1S/C21H30O2/c1-5-6-7-8-15-12-18(22)20-16-11-14(2)9-10-17(16)21(3,4)23-19(20)  
**InchiKey:** CYQFCXCEBYINGO-UHFFFAOYSA-N  
**Formula:** C21H30O2  
**SMILES:** CCCCCc1cc(O)c2c(c1)OC(C)(C)C1CCC(C)=CC21  
**Mol. weight [g/mol]:** 314.46  
**CAS:** 1972-08-3

## Physical Properties

Property code	Value	Unit	Source
gf	82.78	kJ/mol	Joback Method
hf	-398.00	kJ/mol	Joback Method
hfus	44.85	kJ/mol	Joback Method
hvap	83.13	kJ/mol	Joback Method
log10ws	-6.41		Crippen Method
logp	5.736		Crippen Method
mcvol	268.710	ml/mol	McGowan Method
pc	1665.97	kPa	Joback Method
rinpol	2473.00		NIST Webbook
rinpol	2466.00		NIST Webbook
rinpol	2470.00		NIST Webbook
tb	845.82	K	Joback Method
tc	1074.44	K	Joback Method
tf	577.96	K	Joback Method
vc	0.972	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	878.15	J/molxK	845.82	Joback Method
cpg	899.14	J/molxK	883.92	Joback Method
cpg	919.92	J/molxK	922.03	Joback Method
cpg	940.71	J/molxK	960.13	Joback Method
cpg	961.77	J/molxK	998.23	Joback Method
cpg	983.32	J/molxK	1036.33	Joback Method

## Sources

<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=C1972083&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1972083&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>

## 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>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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