

# Nadolol

**Other names:**

1-(tert-Butylamino)-3-((5,6,7,8-tetrahydro-cis-6,7-dihydroxy-1-naphthyl)oxy)-2-propanol  
2,3-Naphthalenediol,  
5-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-1,2,3,4-tetrahydro-  
2,3-Naphthalenediol,  
5-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-1,2,3,4-tetrahydro-, cis-  
2,3-cis-1,2,3,4-Tetrahydro-5-((2-hydroxy-3-tert-butylamino)propoxy)-2,3-naphthalenediol  
5-(3-((1,1-Dimethylethyl)amino)-2-hydroxypropoxy)-1,2,3,4-tetrahydro-2,3-naphthalenediol  
5-(3-(tert-butylamino)-2-hydroxypropoxy)-1,2,3,4-tetrahydronaphthalene-2,3-diol  
5-[3-(tert-Butylamino)-2-hydroxypropoxy]-1,2,3,4-tetrahydro-2,3-naphthalenediol,  
Anabet  
Corgard  
SQ 11725  
Solgol

**Inchi:** InChI=1S/C17H27NO4/c1-17(2,3)18-9-12(19)10-22-16-6-4-5-11-7-14(20)15(21)8-13(11)**InchiKey:** VWPOSFSPZNDTMJ-UHFFFAOYSA-N**Formula:** C17H27NO4**SMILES:** CC(C)(C)NCC(O)COc1cccc2c1CC(O)C(O)C2**Mol. weight [g/mol]:** 309.40**CAS:** 42200-33-9

## Physical Properties

Property code	Value	Unit	Source
gf	-199.32	kJ/mol	Joback Method
hf	-683.79	kJ/mol	Joback Method
hfus	37.77	kJ/mol	Joback Method
hvap	114.01	kJ/mol	Joback Method
log10ws	-1.01		Aqueous Solubility Prediction Method
logp	0.635		Crippen Method
mcvol	249.230	ml/mol	McGowan Method
pc	2208.29	kPa	Joback Method
rinpol	2633.00		NIST Webbook
tb	976.80	K	Joback Method
tc	1195.88	K	Joback Method
tf	403.40	K	Solubility and pKa of select pharmaceuticals in water, ethanol, and 1-octanol
tf	400.65	K	Aqueous Solubility Prediction Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	865.39	J/mol×K	976.80	Joback Method
cpg	877.76	J/mol×K	1013.31	Joback Method
cpg	889.28	J/mol×K	1049.83	Joback Method
cpg	900.04	J/mol×K	1086.34	Joback Method
cpg	910.10	J/mol×K	1122.85	Joback Method
cpg	919.56	J/mol×K	1159.37	Joback Method
cpg	928.48	J/mol×K	1195.88	Joback Method

## Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C42200339&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Solubility and pKa of select pharmaceuticals in water, ethanol, and** <https://www.doi.org/10.1016/j.jct.2010.07.001>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## 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

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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