

# Dioxadrol

<b>Inchi:</b>	InChI=1S/C20H23NO2/c1-3-9-16(10-4-1)20(17-11-5-2-6-12-17)22-15-19(23-20)18-13-7-
<b>InchiKey:</b>	HGKAMARNFGKMLC-UHFFFAOYSA-N
<b>Formula:</b>	C20H23NO2
<b>SMILES:</b>	<chem>c1ccc(C2(c3ccccc3)OCC(C3CCCCN3)O2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	309.40
<b>CAS:</b>	3666-69-1

## Physical Properties

Property code	Value	Unit	Source
gf	305.61	kJ/mol	Joback Method
hf	-99.56	kJ/mol	Joback Method
hfus	41.73	kJ/mol	Joback Method
hvap	79.67	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	3.445		Crippen Method
mvol	245.140	ml/mol	McGowan Method
pc	2329.27	kPa	Joback Method
rinpol	2323.00		NIST Webbook
rinpol	2323.00		NIST Webbook
tb	843.21	K	Joback Method
tc	1126.02	K	Joback Method
tf	564.11	K	Joback Method
vc	0.889	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	793.95	J/mol×K	843.21	Joback Method
cpg	817.02	J/mol×K	890.34	Joback Method
cpg	838.91	J/mol×K	937.48	Joback Method
cpg	859.97	J/mol×K	984.61	Joback Method
cpg	880.54	J/mol×K	1031.75	Joback Method
cpg	900.97	J/mol×K	1078.88	Joback Method
cpg	921.59	J/mol×K	1126.02	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3666691&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3666691&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>hvp:</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>rinp:</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/97-950-0/Dioxadrol.pdf>

Generated by Cheméo on 2024-04-20 11:26:30.954360668 +0000 UTC m=+15901639.874938035.

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