

# (Z)-5-(Pentadec-8-en-1-yl)benzene-1,3-diol

<b>Inchi:</b>	InChI=1S/C21H34O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-19-16-20(22)18-21(23)17-19
<b>InchiKey:</b>	TUGAUFMQYWZJAB-FPLPWBNLSA-N
<b>Formula:</b>	C21H34O2
<b>SMILES:</b>	CCCCCCC=CCCCCCCCc1cc(O)cc(O)c1
<b>Mol. weight [g/mol]:</b>	318.49
<b>CAS:</b>	22910-86-7

## Physical Properties

Property code	Value	Unit	Source
gf	9.33	kJ/mol	Joback Method
hf	-477.64	kJ/mol	Joback Method
hfus	55.95	kJ/mol	Joback Method
hvap	90.60	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	6.508		Crippen Method
mcvol	290.430	ml/mol	McGowan Method
pc	1534.26	kPa	Joback Method
rinpol	2788.30		NIST Webbook
rinpol	2788.30		NIST Webbook
tb	871.96	K	Joback Method
tc	1080.84	K	Joback Method
tf	571.21	K	Joback Method
vc	1.016	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	934.32	J/molxK	871.96	Joback Method
cpg	952.22	J/molxK	906.77	Joback Method
cpg	969.70	J/molxK	941.59	Joback Method
cpg	986.89	J/molxK	976.40	Joback Method
cpg	1003.96	J/molxK	1011.21	Joback Method
cpg	1021.05	J/molxK	1046.02	Joback Method
cpg	1038.29	J/molxK	1080.84	Joback Method

dvisc	0.0000136	Paxs	571.21	Joback Method
dvisc	0.0000048	Paxs	621.34	Joback Method
dvisc	0.0000020	Paxs	671.46	Joback Method
dvisc	0.0000009	Paxs	721.59	Joback Method
dvisc	0.0000005	Paxs	771.71	Joback Method
dvisc	0.0000003	Paxs	821.84	Joback Method
dvisc	0.0000002	Paxs	871.96	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C22910867&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22910867&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>mvol:</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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