

# (E)-2,6-Dimethylocta-3,7-diene-2,6-diol

<b>Inchi:</b>	InChI=1S/C10H18O2/c1-5-10(4,12)8-6-7-9(2,3)11/h5-7,11-12H,1,8H2,2-4H3/b7-6+
<b>InchiKey:</b>	QEOHJVNDENHRCH-VOTSOKGWSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	C=CC(C)(O)CC=CC(C)(C)O
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	51276-34-7

## Physical Properties

Property code	Value	Unit	Source
gf	-66.58	kJ/mol	Joback Method
hf	-329.04	kJ/mol	Joback Method
hfus	13.93	kJ/mol	Joback Method
hvap	67.91	kJ/mol	Joback Method
log10ws	-2.47		Crippen Method
logp	1.641		Crippen Method
mvol	154.900	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
rinpol	1191.20		NIST Webbook
rinpol	1191.20		NIST Webbook
tb	606.94	K	Joback Method
tc	785.35	K	Joback Method
tf	322.10	K	Joback Method
vc	0.573	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.39	J/molxK	606.94	Joback Method
cpg	417.71	J/molxK	636.67	Joback Method
cpg	428.34	J/molxK	666.41	Joback Method
cpg	438.34	J/molxK	696.14	Joback Method
cpg	447.75	J/molxK	725.88	Joback Method
cpg	456.64	J/molxK	755.61	Joback Method
cpg	465.04	J/molxK	785.35	Joback Method

dvisc	0.0332491	Paxs	322.10	Joback Method
dvisc	0.0043787	Paxs	369.57	Joback Method
dvisc	0.0009149	Paxs	417.05	Joback Method
dvisc	0.0002632	Paxs	464.52	Joback Method
dvisc	0.0000954	Paxs	511.99	Joback Method
dvisc	0.0000411	Paxs	559.47	Joback Method
dvisc	0.0000202	Paxs	606.94	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=C51276347&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C51276347&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>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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