

# 1,3-Dioxane, 2-isopropyl-4-(2-pentenyl), 2R,4R

<b>Inchi:</b>	InChI=1S/C12H22O2/c1-4-5-6-7-11-8-9-13-12(14-11)10(2)3/h5-6,10-12H,4,7-9H2,1-3H3
<b>InchiKey:</b>	URODEFYSNWWYIU-WTIVYXKASA-N
<b>Formula:</b>	C12H22O2
<b>SMILES:</b>	CCC=CCC1CCOC(C(C)C)O1
<b>Mol. weight [g/mol]:</b>	198.30

## Physical Properties

Property code	Value	Unit	Source
gf	-27.56	kJ/mol	Joback Method
hf	-409.09	kJ/mol	Joback Method
hfus	32.38	kJ/mol	Joback Method
hvap	51.02	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	3.130		Crippen Method
mvol	176.520	ml/mol	McGowan Method
pc	2151.31	kPa	Joback Method
ripol	1600.00		NIST Webbook
ripol	1600.00		NIST Webbook
tb	546.46	K	Joback Method
tc	749.53	K	Joback Method
tf	261.20	K	Joback Method
vc	0.655	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	449.38	J/molxK	546.46	Joback Method
cpg	469.38	J/molxK	580.30	Joback Method
cpg	488.31	J/molxK	614.15	Joback Method
cpg	506.20	J/molxK	647.99	Joback Method
cpg	523.10	J/molxK	681.84	Joback Method
cpg	539.02	J/molxK	715.68	Joback Method
cpg	554.01	J/molxK	749.53	Joback Method
dvisc	0.0072168	Paxs	261.20	Joback Method

dvisc	0.0025199	Paxs	308.74	Joback Method
dvisc	0.0011651	Paxs	356.29	Joback Method
dvisc	0.0006460	Paxs	403.83	Joback Method
dvisc	0.0004056	Paxs	451.37	Joback Method
dvisc	0.0002783	Paxs	498.92	Joback Method
dvisc	0.0002038	Paxs	546.46	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=R191909&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R191909&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>

## 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>ripol:</b>	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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