

# 1,3-Dioxolane, 2-(2-phenylethenyl), (E)

<b>Inchi:</b>	InChI=1S/C11H12O2/c1-2-4-10(5-3-1)6-7-11-12-8-9-13-11/h1-7,11H,8-9H2/b7-6+
<b>InchiKey:</b>	JQLASNFFJHGQTK-VOTSOKGWSA-N
<b>Formula:</b>	C11H12O2
<b>SMILES:</b>	C(=CC1OCCO1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	176.21

## Physical Properties

Property code	Value	Unit	Source
gf	98.68	kJ/mol	Joback Method
hf	-120.14	kJ/mol	Joback Method
hfus	28.38	kJ/mol	Joback Method
hvap	51.59	kJ/mol	Joback Method
log10ws	-2.23		Crippen Method
logp	2.073		Crippen Method
mvol	138.670	ml/mol	McGowan Method
pc	3345.11	kPa	Joback Method
rinpol	1513.00		NIST Webbook
rinpol	1513.00		NIST Webbook
tb	551.10	K	Joback Method
tc	793.42	K	Joback Method
tf	299.11	K	Joback Method
vc	0.506	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.01	J/molxK	551.10	Joback Method
cpg	347.14	J/molxK	591.49	Joback Method
cpg	362.94	J/molxK	631.87	Joback Method
cpg	377.50	J/molxK	672.26	Joback Method
cpg	390.89	J/molxK	712.65	Joback Method
cpg	403.20	J/molxK	753.04	Joback Method
cpg	414.52	J/molxK	793.42	Joback Method
dvisc	0.0036566	Paxs	299.11	Joback Method

dvisc	0.0018009	Paxs	341.11	Joback Method
dvisc	0.0010360	Paxs	383.11	Joback Method
dvisc	0.0006648	Paxs	425.11	Joback Method
dvisc	0.0004620	Paxs	467.10	Joback Method
dvisc	0.0003409	Paxs	509.10	Joback Method
dvisc	0.0002635	Paxs	551.10	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=R329392&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R329392&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>

## 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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