

# 1,3-Benzodioxole, 5-(1-propenyl)-

<b>Other names:</b>	Benzene, 1,2-(methylenedioxy)-4-propenyl- Isosafrole Izosafrol 1,2-(Methylenedioxy)-4-propenylbenzene 3,4-(Methylenedioxy)-1-propenylbenzene 4-Propenyl-1,2-methylenedioxybenzene 4-Propenylcatechol methylene ether 5-(1-Propenyl)-1,3-benzodioxole Rcra waste number U141 Isosafrol 1,3-Benzodioxole, 5-(1-propen-1-yl)- 6-(1-Propenyl)-1,3-benzodioxole NSC 4884 5-prop-1-enyl-1,3-benzodioxole
<b>Inchi:</b>	InChI=1S/C10H10O2/c1-2-3-8-4-5-9-10(6-8)12-7-11-9/h2-6H,7H2,1H3
<b>InchiKey:</b>	VHVOLFRBFDOSH-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O2
<b>SMILES:</b>	CC=Cc1ccc2c(c1)OCO2
<b>Mol. weight [g/mol]:</b>	162.19
<b>CAS:</b>	120-58-1

## Physical Properties

Property code	Value	Unit	Source
gf	102.91	kJ/mol	Joback Method
hf	-89.78	kJ/mol	Joback Method
hfus	28.14	kJ/mol	Joback Method
hvap	50.65	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.448		Crippen Method
mcvol	124.580	ml/mol	McGowan Method
pc	3543.08	kPa	Joback Method
rinpole	1360.00		NIST Webbook
rinpole	1298.00		NIST Webbook
rinpole	234.79		NIST Webbook
rinpole	235.68		NIST Webbook
rinpole	1360.00		NIST Webbook
rinpole	1296.00		NIST Webbook

rinpol	1296.00		NIST Webbook
rinpol	1355.00		NIST Webbook
rinpol	1357.00		NIST Webbook
ripol	2029.00		NIST Webbook
ripol	2029.00		NIST Webbook
ripol	2040.00		NIST Webbook
tb	534.31	K	Joback Method
tc	766.11	K	Joback Method
tf	324.16	K	Joback Method
vc	0.468	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.33	J/molxK	766.11	Joback Method
cpg	338.36	J/molxK	727.47	Joback Method
cpg	328.73	J/molxK	688.84	Joback Method
cpg	318.35	J/molxK	650.21	Joback Method
cpg	307.14	J/molxK	611.58	Joback Method
cpg	295.01	J/molxK	572.94	Joback Method
cpg	281.89	J/molxK	534.31	Joback Method
dvisc	0.0019464	Paxs	324.16	Joback Method
dvisc	0.0003807	Paxs	534.31	Joback Method
dvisc	0.0004543	Paxs	499.28	Joback Method
dvisc	0.0005566	Paxs	464.26	Joback Method
dvisc	0.0007050	Paxs	429.24	Joback Method
dvisc	0.0009313	Paxs	394.21	Joback Method
dvisc	0.0012988	Paxs	359.19	Joback Method
hvapt	59.40	kJ/mol	462.00	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	354.70	K	0.50	NIST Webbook

# Sources

<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>
<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=C120581&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C120581&amp;Units=SI</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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