

# o-Ethylvinylbenzene

<b>Other names:</b>	1-Ethyl-2-vinylbenzene 2-Ethylstyrene
<b>Inchi:</b>	InChI=1S/C10H12/c1-3-9-7-5-6-8-10(9)4-2/h3,5-8H,1,4H2,2H3
<b>InchiKey:</b>	VTPNYMSKBPZSTF-UHFFFAOYSA-N
<b>Formula:</b>	C10H12
<b>SMILES:</b>	<chem>C=Cc1ccccc1CC</chem>
<b>Mol. weight [g/mol]:</b>	132.20
<b>CAS:</b>	7564-63-8

## Physical Properties

Property code	Value	Unit	Source
gf	223.94	kJ/mol	Joback Method
hf	100.76	kJ/mol	Joback Method
hfus	14.03	kJ/mol	Joback Method
hvap	40.12	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	2.892		Crippen Method
mcvol	123.700	ml/mol	McGowan Method
pc	3018.96	kPa	Joback Method
rinpol	1091.00		NIST Webbook
rinpol	1091.00		NIST Webbook
rinpol	1086.40		NIST Webbook
tb	456.54	K	Joback Method
tc	667.08	K	Joback Method
tf	197.55 ± 0.50	K	NIST Webbook
vc	0.469	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.43	J/mol×K	667.08	Joback Method
cpg	303.05	J/mol×K	631.99	Joback Method
cpg	292.01	J/mol×K	596.90	Joback Method
cpg	280.28	J/mol×K	561.81	Joback Method

cpg	267.82	J/mol×K	526.72	Joback Method
cpg	254.60	J/mol×K	491.63	Joback Method
cpg	240.59	J/mol×K	456.54	Joback Method
dvisc	0.0021934	Paxs	239.64	Joback Method
dvisc	0.0002161	Paxs	456.54	Joback Method
dvisc	0.0002693	Paxs	420.39	Joback Method
dvisc	0.0003498	Paxs	384.24	Joback Method
dvisc	0.0004798	Paxs	348.09	Joback Method
dvisc	0.0007081	Paxs	311.94	Joback Method
dvisc	0.0011572	Paxs	275.79	Joback Method
hvapt	46.30	kJ/mol	388.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7564638&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7564638&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>
<b>KDB:</b>	<a href="https://www.cheric.org/files/research/kdb/mol/mol740.mol">https://www.cheric.org/files/research/kdb/mol/mol740.mol</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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