

# 2,4-Decadien-1-ol, (E,E)-

<b>Other names:</b>	(E,E)-2,4-Decadien-1-ol trans-2,4-Decadienol trans,trans-2,4-Decadienol trans-2-trans-4-Decadienol (2E,4E)-2,4-Decadien-1-ol (E,E)-2,4-Decadienol 2,4-Decadien-1-ol, (2E,4E)-
<b>Inchi:</b>	InChI=1S/C10H18O/c1-2-3-4-5-6-7-8-9-10-11/h6-9,11H,2-5,10H2,1H3/b7-6+,9-8+
<b>InchiKey:</b>	NUBWFSDCZULDCI-BLHCBFLLSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	CCCCC=CC=CCO
<b>Mol. weight [g/mol]:</b>	154.25
<b>CAS:</b>	18409-21-7

## Physical Properties

Property code	Value	Unit	Source
gf	56.94	kJ/mol	Joback Method
hf	-167.52	kJ/mol	Joback Method
hfus	26.15	kJ/mol	Joback Method
hvap	54.45	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.671		Crippen Method
mvol	149.030	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
rinpol	1310.00		NIST Webbook
rinpol	1310.00		NIST Webbook
tb	528.70	K	Joback Method
tc	700.08	K	Joback Method
tf	253.12	K	Joback Method
vc	0.575	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	344.77	J/molxK	528.70	Joback Method
cpg	401.38	J/molxK	671.51	Joback Method
cpg	391.12	J/molxK	642.95	Joback Method
cpg	380.36	J/molxK	614.39	Joback Method
cpg	369.07	J/molxK	585.83	Joback Method
cpg	357.22	J/molxK	557.26	Joback Method
cpg	411.16	J/molxK	700.08	Joback Method
dvisc	0.0000851	Paxs	528.70	Joback Method
dvisc	0.0001440	Paxs	482.77	Joback Method
dvisc	0.0002723	Paxs	436.84	Joback Method
dvisc	0.0005979	Paxs	390.91	Joback Method
dvisc	0.0016185	Paxs	344.98	Joback Method
dvisc	0.0059497	Paxs	299.05	Joback Method
dvisc	0.0350795	Paxs	253.12	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=C18409217&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18409217&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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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