

# 3-Penten-1-ol, (E)-

<b>Other names:</b>	trans-3-Pentenol-1 trans-3-Pentenol (E)-pent-3-en-1-ol
<b>Inchi:</b>	InChI=1S/C5H10O/c1-2-3-4-5-6/h2-3,6H,4-5H2,1H3/b3-2+
<b>InchiKey:</b>	FSUXYWPIJZGCC-NSCUHMNNSA-N
<b>Formula:</b>	C5H10O
<b>SMILES:</b>	CC=CCCO
<b>Mol. weight [g/mol]:</b>	86.13
<b>CAS:</b>	764-37-4

## Physical Properties

Property code	Value	Unit	Source
gf	-65.38	kJ/mol	Joback Method
hf	-181.54	kJ/mol	Joback Method
hfus	13.00	kJ/mol	Joback Method
hvap	43.36	kJ/mol	Joback Method
log10ws	-1.03		Crippen Method
logp	0.945		Crippen Method
mcvol	82.880	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
ripol	1255.00		NIST Webbook
tb	410.00 ± 3.00	K	NIST Webbook
tc	579.75	K	Joback Method
tf	201.85	K	Joback Method
vc	0.315	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.30	J/molxK	410.14	Joback Method
cpg	162.28	J/molxK	438.41	Joback Method
cpg	169.90	J/molxK	466.68	Joback Method
cpg	177.18	J/molxK	494.94	Joback Method
cpg	184.13	J/molxK	523.21	Joback Method

cpg	190.77	J/molxK	551.48	Joback Method
cpg	197.11	J/molxK	579.75	Joback Method
dvisc	0.1185690	Paxs	201.85	Joback Method
dvisc	0.0195828	Paxs	236.56	Joback Method
dvisc	0.0051279	Paxs	271.28	Joback Method
dvisc	0.0018199	Paxs	306.00	Joback Method
dvisc	0.0007977	Paxs	340.71	Joback Method
dvisc	0.0004073	Paxs	375.42	Joback Method
dvisc	0.0002330	Paxs	410.14	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C764374&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C764374&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>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>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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