

# «alpha»-Terpinen-7-al

<b>Other names:</b>	p-Mentha-1,3-dien-7-al 1,3-p-menthadien-7-al terpinen-7-al
<b>Inchi:</b>	InChI=1S/C10H14O/c1-8(2)10-5-3-9(7-11)4-6-10/h3,5,7-8H,4,6H2,1-2H3
<b>InchiKey:</b>	MKVBITWQDIIUMF-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O
<b>SMILES:</b>	CC(C)C1=CC=C(C=O)CC1
<b>Mol. weight [g/mol]:</b>	150.22
<b>CAS:</b>	1197-15-5

## Physical Properties

Property code	Value	Unit	Source
gf	4.18	kJ/mol	Joback Method
hf	-173.31	kJ/mol	Joback Method
hfus	12.85	kJ/mol	Joback Method
hvap	46.83	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.488		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	3032.27	kPa	Joback Method
ripol	1286.30		NIST Webbook
ripol	1811.00		NIST Webbook
ripol	1811.00		NIST Webbook
tb	508.92	K	Joback Method
tc	722.30	K	Joback Method
tf	267.64	K	Joback Method
vc	0.512	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.28	J/mol×K	508.92	Joback Method
cpg	361.39	J/mol×K	686.74	Joback Method
cpg	349.72	J/mol×K	651.17	Joback Method

cpg	337.29	J/molxK	615.61	Joback Method
cpg	324.10	J/molxK	580.05	Joback Method
cpg	310.10	J/molxK	544.48	Joback Method
cpg	372.35	J/molxK	722.30	Joback Method
dvisc	0.0002577	Paxs	508.92	Joback Method
dvisc	0.0003352	Paxs	468.71	Joback Method
dvisc	0.0004582	Paxs	428.49	Joback Method
dvisc	0.0006681	Paxs	388.28	Joback Method
dvisc	0.0010628	Paxs	348.07	Joback Method
dvisc	0.0019089	Paxs	307.85	Joback Method
dvisc	0.0040883	Paxs	267.64	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1197155&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1197155&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>rinpol:</b>	Non-polar retention indices
<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

Latest version available from:

<https://www.chemeo.com/cid/78-710-7/alpha-Terpinen-7-al.pdf>

Generated by Cheméo on 2024-04-30 05:00:25.261216368 +0000 UTC m=+16742474.181793679.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.