

# «alpha»-Phellandrene, dimer

<b>Inchi:</b>	InChI=1S/C20H32/c1-13(2)15-7-9-19(5)17(11-15)18-12-16(14(3)4)8-10-20(18,19)6/h7-10
<b>InchiKey:</b>	YNQNZPAXEWELDZ-UHFFFAOYSA-N
<b>Formula:</b>	C20H32
<b>SMILES:</b>	CC(C)C1C=CC2(C)C(C1)C1CC(C(C)C)C=CC12C
<b>Mol. weight [g/mol]:</b>	272.47
<b>CAS:</b>	7350-11-0

## Physical Properties

Property code	Value	Unit	Source
gf	284.40	kJ/mol	Joback Method
hf	-181.75	kJ/mol	Joback Method
hfus	21.68	kJ/mol	Joback Method
hvap	56.95	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.709		Crippen Method
mcvol	251.480	ml/mol	McGowan Method
pc	1486.14	kPa	Joback Method
rinpol	1801.40		NIST Webbook
tb	673.94	K	Joback Method
tc	896.52	K	Joback Method
tf	365.02	K	Joback Method
vc	0.956	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.91	J/mol×K	673.94	Joback Method
cpg	787.50	J/mol×K	711.04	Joback Method
cpg	811.89	J/mol×K	748.13	Joback Method
cpg	835.40	J/mol×K	785.23	Joback Method
cpg	858.30	J/mol×K	822.33	Joback Method
cpg	880.89	J/mol×K	859.42	Joback Method
cpg	903.47	J/mol×K	896.52	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7350110&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7350110&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</b>	Non-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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