

# Dimer of «alpha»-phellandrene 2

<b>Inchi:</b>	InChI=1S/C20H32/c1-14(2)16-7-8-19(6)17(13-16)18(5)9-11-20(19,12-10-18)15(3)4/h9,11
<b>InchiKey:</b>	ANLKQZHORXQFDZ-UHFFFAOYSA-N
<b>Formula:</b>	C20H32
<b>SMILES:</b>	CC(C)C1=CC2C3(C)C=CC(C(C)C)(CC3)C2(C)CC1
<b>Mol. weight [g/mol]:</b>	272.47

## Physical Properties

Property code	Value	Unit	Source
gf	284.70	kJ/mol	Joback Method
hf	-137.30	kJ/mol	Joback Method
hfus	12.85	kJ/mol	Joback Method
hvap	57.08	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	5.997		Crippen Method
mvol	251.480	ml/mol	McGowan Method
pc	1602.56	kPa	Joback Method
rinpol	1904.00		NIST Webbook
tb	688.50	K	Joback Method
tc	919.87	K	Joback Method
tf	409.92	K	Joback Method
vc	0.956	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	755.37	J/mol×K	688.50	Joback Method
cpg	780.06	J/mol×K	727.06	Joback Method
cpg	804.04	J/mol×K	765.62	Joback Method
cpg	827.73	J/mol×K	804.18	Joback Method
cpg	851.58	J/mol×K	842.75	Joback Method
cpg	876.04	J/mol×K	881.31	Joback Method
cpg	901.53	J/mol×K	919.87	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=R286394&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R286394&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>h vap:</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>m cvol:</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
<b>vc:</b>	Critical Volume

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