

# (4aS,10aS)-7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,

Inchi:	InChI=1S/C20H32/c1-14(2)15-7-9-17-16(13-15)8-10-18-19(3,4)11-6-12-20(17,18)5/h13-1
InchiKey:	KEQXEEMBFONZBL-QUCCMNQESA-N
Formula:	C20H32
SMILES:	CC(C)C1=CC2=C(CC1)C1(C)CCCC(C)(C)C1CC2
Mol. weight [g/mol]:	272.47
CAS:	41577-36-0

## Physical Properties

Property code	Value	Unit	Source
gf	256.88	kJ/mol	Joback Method
hf	-162.18	kJ/mol	Joback Method
hfus	16.62	kJ/mol	Joback Method
hvap	60.59	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	6.286		Crippen Method
mcvol	251.480	ml/mol	McGowan Method
pc	1602.56	kPa	Joback Method
rinpol	2035.60		NIST Webbook
rinpol	2035.60		NIST Webbook
ripol	2489.00		NIST Webbook
ripol	2489.00		NIST Webbook
ripol	2489.00		NIST Webbook
tb	711.87	K	Joback Method
tc	946.21	K	Joback Method
tf	423.26	K	Joback Method
vc	0.949	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	764.74	J/molxK	711.87	Joback Method
cpg	789.91	J/molxK	750.93	Joback Method
cpg	814.18	J/molxK	789.98	Joback Method
cpg	837.86	J/molxK	829.04	Joback Method

cpg	861.28	J/mol×K	868.09	Joback Method
cpg	884.76	J/mol×K	907.15	Joback Method
cpg	908.63	J/mol×K	946.21	Joback Method

## Sources

<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=C41577360&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C41577360&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>

## 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>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

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