

# Propane, 2,2-dimethyl-1,1,1-triphenyl-

<b>Inchi:</b>	InChI=1S/C23H24/c1-22(2,3)23(19-13-7-4-8-14-19,20-15-9-5-10-16-20)21-17-11-6-12-18
<b>InchiKey:</b>	SVRBTPSIMKABRS-UHFFFAOYSA-N
<b>Formula:</b>	C23H24
<b>SMILES:</b>	CC(C)(C)C(c1ccccc1)(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	300.44
<b>CAS:</b>	24523-60-2

## Physical Properties

Property code	Value	Unit	Source
gf	485.69	kJ/mol	Joback Method
hf	174.04	kJ/mol	Joback Method
hfus	22.62	kJ/mol	Joback Method
hvap	71.03	kJ/mol	Joback Method
log10ws	-6.39		Crippen Method
logp	6.067		Crippen Method
mcvol	263.650	ml/mol	McGowan Method
pc	1743.37	kPa	Joback Method
tb	799.22	K	Joback Method
tc	1067.42	K	Joback Method
tf	433.07	K	Joback Method
vc	0.978	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	775.81	J/molxK	799.22	Joback Method
cpg	795.77	J/molxK	843.92	Joback Method
cpg	813.96	J/molxK	888.62	Joback Method
cpg	830.64	J/molxK	933.32	Joback Method
cpg	846.07	J/molxK	978.02	Joback Method
cpg	860.51	J/molxK	1022.72	Joback Method
cpg	874.22	J/molxK	1067.42	Joback Method
dvisc	0.0011434	Paxs	433.07	Joback Method
dvisc	0.0004781	Paxs	494.10	Joback Method

dvisc	0.0002421	Paxs	555.12	Joback Method
dvisc	0.0001403	Paxs	616.14	Joback Method
dvisc	0.0000897	Paxs	677.17	Joback Method
dvisc	0.0000618	Paxs	738.20	Joback Method
dvisc	0.0000450	Paxs	799.22	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=C24523602&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24523602&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>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>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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