

# Cyclopentane, 1,1'-[3-(2-cyclopentylethylidene)-1,5-pentanediyloxy]k

**Other names:** 1,5-Dicyclopentyl-3-(2-cyclopentyl-ethyl)-2-pentene

1,5-Dicyclopentyl-3-(2-cyclopentylethyl)-2-pentene

**Inchi:** InChI=1S/C22H38/c1-2-8-19(7-1)13-16-22(17-14-20-9-3-4-10-20)18-15-21-11-5-6-12-21

**InchiKey:** FWPQRPMGONIMIV-UHFFFAOYSA-N

**Formula:** C22H38

**SMILES:** C(CC1CCCC1)=C(CCC1CCCC1)CCC1CCCC1

**Mol. weight [g/mol]:** 302.54

**CAS:** 54934-71-3

## Physical Properties

Property code	Value	Unit	Source
gf	315.68	kJ/mol	Joback Method
hf	-208.54	kJ/mol	Joback Method
hfus	33.43	kJ/mol	Joback Method
hvap	65.38	kJ/mol	Joback Method
log10ws	-7.84		Crippen Method
logp	7.434		Crippen Method
mcvol	283.960	ml/mol	McGowan Method
pc	1338.82	kPa	Joback Method
tb	752.64	K	Joback Method
tc	972.35	K	Joback Method
tf	351.36	K	Joback Method
vc	1.071	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1040.74	J/molxK	935.73	Joback Method
cpg	924.39	J/molxK	752.64	Joback Method
cpg	950.90	J/molxK	789.26	Joback Method
cpg	975.67	J/molxK	825.88	Joback Method
cpg	998.82	J/molxK	862.50	Joback Method
cpg	1020.47	J/molxK	899.12	Joback Method
cpg	1059.76	J/molxK	972.35	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=C54934713&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54934713&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>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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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