

# DL-3,4-Di(1-cyclohexen-1-yl)-2,2,5,5-tetramethylhe

<b>Inchi:</b>	InChI=1S/C22H38/c1-21(2,3)19(17-13-9-7-10-14-17)20(22(4,5)6)18-15-11-8-12-16-18/h
<b>InchiKey:</b>	XIRWMTQAKDZMDH-UHFFFAOYSA-N
<b>Formula:</b>	C22H38
<b>SMILES:</b>	CC(C)(C)C(C1=CCCCC1)C(C1=CCCCC1)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	302.54
<b>CAS:</b>	69045-73-4

## Physical Properties

Property code	Value	Unit	Source
gf	240.14	kJ/mol	Joback Method
hf	-260.00 ± 6.30	kJ/mol	NIST Webbook
hfus	14.06	kJ/mol	Joback Method
hvap	64.58	kJ/mol	Joback Method
log10ws	-7.56		Crippen Method
logp	7.312		Crippen Method
mcvol	290.520	ml/mol	McGowan Method
pc	1314.65	kPa	Joback Method
tb	752.14	K	Joback Method
tc	982.66	K	Joback Method
tf	362.34	K	Joback Method
vc	1.073	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	910.75	J/molxK	752.14	Joback Method
cpg	1021.13	J/molxK	944.24	Joback Method
cpg	1002.15	J/molxK	905.82	Joback Method
cpg	981.76	J/molxK	867.40	Joback Method
cpg	959.83	J/molxK	828.98	Joback Method
cpg	936.21	J/molxK	790.56	Joback Method
cpg	1038.86	J/molxK	982.66	Joback Method
dvisc	0.0000345	Paxs	752.14	Joback Method
dvisc	0.0000528	Paxs	687.17	Joback Method

dvisc	0.0000884	Paxs	622.21	Joback Method
dvisc	0.0001668	Paxs	557.24	Joback Method
dvisc	0.0003721	Paxs	492.27	Joback Method
dvisc	0.0010597	Paxs	427.31	Joback Method
dvisc	0.0043924	Paxs	362.34	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=C69045734&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C69045734&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>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>mccvol:</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

Latest version available from:

<https://www.chemeo.com/cid/70-630-4/DL-3-4-Di-1-cyclohexen-1-yl-2-2-5-5-tetramethylhexane.pdf>

Generated by Cheméo on 2024-04-27 03:41:42.670590615 +0000 UTC m=+16478551.591167931.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.