

# 2,12-Dibromocyclododecanone

<b>Other names:</b>	Cyclododecanone, 2,12-dibromo-
<b>Inchi:</b>	InChI=1S/C12H20Br2O/c13-10-8-6-4-2-1-3-5-7-9-11(14)12(10)15/h10-11H,1-9H2
<b>InchiKey:</b>	CLAFKWVRFMBEBC-UHFFFAOYSA-N
<b>Formula:</b>	C12H20Br2O
<b>SMILES:</b>	O=C1C(Br)CCCCCCCCC1Br
<b>Mol. weight [g/mol]:</b>	340.10
<b>CAS:</b>	24459-40-3

## Physical Properties

Property code	Value	Unit	Source
gf	-99.65	kJ/mol	Joback Method
hf	-379.03	kJ/mol	Joback Method
hfus	17.22	kJ/mol	Joback Method
hvap	60.58	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.607		Crippen Method
mcvol	205.650	ml/mol	McGowan Method
pc	2844.44	kPa	Joback Method
tb	714.60	K	Joback Method
tc	994.19	K	Joback Method
tf	394.84	K	Joback Method
vc	0.723	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	552.23	J/mol×K	714.60	Joback Method
cpg	575.64	J/mol×K	761.20	Joback Method
cpg	596.76	J/mol×K	807.80	Joback Method
cpg	615.50	J/mol×K	854.40	Joback Method
cpg	631.82	J/mol×K	900.99	Joback Method
cpg	645.63	J/mol×K	947.59	Joback Method
cpg	656.88	J/mol×K	994.19	Joback Method

# Sources

<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=C24459403&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24459403&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>

# 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>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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