

# Trichloroacetamide, n-decyl-N-methyl-

<b>Inchi:</b>	InChI=1S/C13H24Cl3NO/c1-3-4-5-6-7-8-9-10-11-17(2)12(18)13(14,15)16/h3-11H2,1-2H3
<b>InchiKey:</b>	SJOGSVVCAXLHSHK-UHFFFAOYSA-N
<b>Formula:</b>	C13H24Cl3NO
<b>SMILES:</b>	CCCCCCCCCN(C)C(=O)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	316.69

## Physical Properties

Property code	Value	Unit	Source
gf	7.49	kJ/mol	Joback Method
hf	-412.67	kJ/mol	Joback Method
hfus	39.22	kJ/mol	Joback Method
hvap	65.18	kJ/mol	Joback Method
log10ws	-5.17		Crippen Method
logp	4.956		Crippen Method
mvol	242.300	ml/mol	McGowan Method
pc	1603.85	kPa	Joback Method
rinpol	2046.00		NIST Webbook
tb	672.21	K	Joback Method
tc	861.49	K	Joback Method
tf	410.85	K	Joback Method
vc	0.923	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	623.16	J/mol×K	672.21	Joback Method
cpg	638.16	J/mol×K	703.76	Joback Method
cpg	652.28	J/mol×K	735.30	Joback Method
cpg	665.58	J/mol×K	766.85	Joback Method
cpg	678.11	J/mol×K	798.40	Joback Method
cpg	689.92	J/mol×K	829.94	Joback Method
cpg	701.06	J/mol×K	861.49	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=U308488&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308488&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-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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