

# CD3

Inchi:	InChI=1S/CH3/h1H3/i1D3
InchiKey:	WCYWZMWISLQXQU-FIBGUPNXSA-N
Formula:	CD3
SMILES:	[CH3]
Mol. weight [g/mol]:	18.05

## Physical Properties

Property code	Value	Unit	Source
gf	9.92	kJ/mol	Joback Method
hf	-8.16	kJ/mol	Joback Method
hfus	0.03	kJ/mol	Joback Method
hvap	17.67	kJ/mol	Joback Method
log10ws	0.15		Crippen Method
logp	0.450		Crippen Method
mcvol	22.800	ml/mol	McGowan Method
pc	6200.01	kPa	Joback Method
tb	221.58	K	Joback Method
tc	370.90	K	Joback Method
tf	117.40	K	Joback Method
vc	0.083	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	15.82	J/molxK	221.58	Joback Method
cpg	27.47	J/molxK	346.02	Joback Method
cpg	25.49	J/molxK	321.13	Joback Method
cpg	23.34	J/molxK	296.24	Joback Method
cpg	21.02	J/molxK	271.35	Joback Method
cpg	18.52	J/molxK	246.47	Joback Method
cpg	29.30	J/molxK	370.90	Joback Method
dvisc	0.0000294	Paxs	221.58	Joback Method
dvisc	0.0000289	Paxs	204.22	Joback Method
dvisc	0.0000282	Paxs	186.85	Joback Method

dvisc	0.0000275	Paxs	169.49	Joback Method
dvisc	0.0000266	Paxs	152.13	Joback Method
dvisc	0.0000255	Paxs	134.76	Joback Method
dvisc	0.0000241	Paxs	117.40	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=B1002019&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B1002019&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>
<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>

## 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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