

2-ACETYL-1,3-CYCLOHEXANEDIONE

Other names:	1,3-Cyclohexanedione, 2-acetyl-
Inchi:	InChI=1S/C8H10O3/c1-5(9)8-6(10)3-2-4-7(8)11/h8H,2-4H2,1H3
InchiKey:	CHNXDYRMRBQOEF-UHFFFAOYSA-N
Formula:	C8H10O3
SMILES:	CC(=O)C1C(=O)CCCC1=O
Mol. weight [g/mol]:	154.17

Physical Properties

Property code	Value	Unit	Source
hfus	8.93	kJ/mol	Joback Method
ie	9.09	eV	Cheméo Relay (1.0)
logp	0.514		Crippen Method
mcvol	117.430	ml/mol	McGowan Method
tb	520.96	K	Cheméo Relay (1.0)
tf	303.50 ± 1.50	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.32	J/mol×K	591.50	Joback Method
cpg	309.84	J/mol×K	632.36	Joback Method
cpg	324.52	J/mol×K	673.22	Joback Method
cpg	338.28	J/mol×K	714.08	Joback Method
cpg	351.09	J/mol×K	754.94	Joback Method
cpg	362.87	J/mol×K	795.80	Joback Method
cpg	373.57	J/mol×K	836.66	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	399.70	K	2.90	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4056739&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/27-998-5/2-ACETYL-1-3-CYCLOHEXANEDIONE.pdf>

Generated by Cheméo on 2026-07-22 01:36:31.733762877 +0000 UTC m=+195287.575648282.

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