

7-METHOXY-1-TETRALONE

Other names:	1(2H)-Naphthalenone, 3,4-dihydro-7-methoxy- 3,4-Dihyro-7-methoxy-1(2H)-naphthalenone 7-methoxy-1,2,3,4-tetrahydronaphthalen-1-one
Inchi:	InChI=1S/C11H12O2/c1-13-9-6-5-8-3-2-4-11(12)10(8)7-9/h5-7H,2-4H2,1H3
InchiKey:	GABLTKRIYDNDIN-UHFFFAOYSA-N
Formula:	C11H12O2
SMILES:	COc1ccc2c(c1)C(=O)CCC2
Mol. weight [g/mol]:	176.22

Physical Properties

Property code	Value	Unit	Source
hfus	13.17	kJ/mol	Joback Method
hsub	103.10 ± 0.90	kJ/mol	NIST Webbook
hvap	75.24	kJ/mol	Cheméo Relay (1.0)
logp	2.214		Crippen Method
mcvol	138.670	ml/mol	McGowan Method
tb	591.09	K	Cheméo Relay (1.0)
tf	321.41	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.90	J/mol×K	593.64	Joback Method
cpg	354.65	J/mol×K	633.91	Joback Method
cpg	369.43	J/mol×K	674.18	Joback Method
cpg	383.26	J/mol×K	714.45	Joback Method
cpg	396.14	J/mol×K	754.72	Joback Method
cpg	408.08	J/mol×K	794.99	Joback Method
cpg	419.09	J/mol×K	835.26	Joback Method
hfust	23.20	kJ/mol	334.80	NIST Webbook
hvapt	103.10	kJ/mol	298.15	Thermochemical study of some methoxytetralones

Sources

Thermochemical study of some methoxytetralones: NIST Webbook:	https://www.doi.org/10.1016/j.jct.2008.07.021 http://webbook.nist.gov/cgi/cbook.cgi?ID=C6836197&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/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/22-309-4/7-METHOXY-1-TETRALONE.pdf>

Generated by Cheméo on 2026-07-21 17:54:53.874515011 +0000 UTC m=+167589.716400416.

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