

3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE

Other names:	2H-Pyran-2,4(3H)-dione, 3-acetyl-6-methyl- Dehydracetic acid DHA DHS 3-Acetyl-6-Methyldihydropyrandione-2,4(3H) 4-Hexenoic acid, 2-acetyl-5-hydroxy-3-oxo-, «delta»-lactone Methylacetopyronone 2-Acetyl-5-hydroxy-3-oxo-4-hexenoic acid, «delta»-lactone 3-Acetyl-6-methyl-2,4(3H)-pyrandione 3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione 3-Acetyl-6-methylpyrandione-2,4 3-Acetyl-4-hydroxy-6-methyl-2H-pyran-2-one 3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione, enol form Kyselina dehydroacetova DHAA 3-Acetyl-6-methyl-pyran-2,4-dione 3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione, ion(1-) 3-Acetyl-6-methyl-2,3-dihydropyran-2,4-dione Acetic acid, dehydro- Biocide 470F NSC 8770
Inchi:	InChI=1S/C8H8O4/c1-4-3-6(10)7(5(2)9)8(11)12-4/h3,7H,1-2H3
InchiKey:	PGRHXDWITVMQBC-UHFFFAOYSA-N
Formula:	C8H8O4
SMILES:	CC(=O)C1C(=O)C=C(C)OC1=O
Mol. weight [g/mol]:	168.15

Physical Properties

Property code	Value	Unit	Source
hfus	17.74	kJ/mol	Joback Method
logp	0.221		Crippen Method
mcvol	119.000	ml/mol	McGowan Method
tb	543.20	K	NIST Webbook
tf	382.15 ± 3.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.05	J/mol×K	622.59	Joback Method
cpg	314.52	J/mol×K	663.43	Joback Method
cpg	327.21	J/mol×K	704.27	Joback Method
cpg	339.05	J/mol×K	745.11	Joback Method
cpg	349.99	J/mol×K	785.95	Joback Method
cpg	359.94	J/mol×K	826.78	Joback Method
cpg	368.83	J/mol×K	867.62	Joback Method
hvapt	62.10	kJ/mol	453.00	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=C520456&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

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion 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

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