

6,7-Dimethoxy-2H-1,3-benzodioxole-5-carbaldehy

Other names:	6,7-Dimethoxybenzo[d][1,3]dioxole-5-carbaldehyde
Inchi:	InChI=1S/C10H10O5/c1-12-8-6(4-11)3-7-9(10(8)13-2)15-5-14-7/h3-4H,5H2,1-2H3
InchiKey:	GWFYXQGVKQUWFF-UHFFFAOYSA-N
Formula:	C10H10O5
SMILES:	COc1c(C=O)cc2c(c1OC)OCO2
Mol. weight [g/mol]:	210.18
CAS:	23731-65-9

Physical Properties

Property code	Value	Unit	Source
gf	-306.09	kJ/mol	Joback Method
hf	-579.96	kJ/mol	Joback Method
hfus	31.83	kJ/mol	Joback Method
hvap	63.56	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.245		Crippen Method
mcvol	142.190	ml/mol	McGowan Method
pc	3372.36	kPa	Joback Method
rinpol	1628.70		NIST Webbook
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tb	633.61	K	Joback Method
tc	853.92	K	Joback Method
tf	440.74	K	Joback Method
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.78	J/mol×K	633.61	Joback Method
cpg	371.93	J/mol×K	670.33	Joback Method
cpg	382.44	J/mol×K	707.05	Joback Method
cpg	392.31	J/mol×K	743.76	Joback Method
cpg	401.56	J/mol×K	780.48	Joback Method
cpg	410.20	J/mol×K	817.20	Joback Method

cpg	418.24	J/mol×K	853.92	Joback Method
dvisc	0.0011599	Pa×s	440.74	Joback Method
dvisc	0.0008920	Pa×s	472.88	Joback Method
dvisc	0.0007093	Pa×s	505.03	Joback Method
dvisc	0.0005797	Pa×s	537.17	Joback Method
dvisc	0.0004847	Pa×s	569.32	Joback Method
dvisc	0.0004131	Pa×s	601.47	Joback Method
dvisc	0.0003578	Pa×s	633.61	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C23731659&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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