

Methyl 4-(3,4-methylenedioxyphenyl)butanoate

Inchi:	InChI=1S/C12H14O4/c1-14-12(13)4-2-3-9-5-6-10-11(7-9)16-8-15-10/h5-7H,2-4,8H2,1H3
InchiKey:	VHUABZULWQQCDI-UHFFFAOYSA-N
Formula:	C12H14O4
SMILES:	COC(=O)CCCC1=CC=C2C(C1)OCO2
Mol. weight [g/mol]:	222.24

Physical Properties

Property code	Value	Unit	Source
gf	-194.39	kJ/mol	Joback Method
hf	-493.08	kJ/mol	Joback Method
hfus	35.91	kJ/mol	Joback Method
hvap	64.30	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	1.911		Crippen Method
mcvol	164.500	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
rinpol	1653.00		NIST Webbook
tb	652.20	K	Joback Method
tc	870.40	K	Joback Method
tf	423.94	K	Joback Method
vc	0.624	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.80	J/molxK	652.20	Joback Method
cpg	494.77	J/molxK	834.03	Joback Method
cpg	484.53	J/molxK	797.67	Joback Method
cpg	473.56	J/molxK	761.30	Joback Method
cpg	461.81	J/molxK	724.93	Joback Method
cpg	449.24	J/molxK	688.57	Joback Method
cpg	504.33	J/molxK	870.40	Joback Method
dvisc	0.0003448	Paxs	652.20	Joback Method
dvisc	0.0004140	Paxs	614.16	Joback Method

dvisc	0.0005092	Paxs	576.11	Joback Method
dvisc	0.0006449	Paxs	538.07	Joback Method
dvisc	0.0008467	Paxs	500.03	Joback Method
dvisc	0.0011625	Paxs	461.98	Joback Method
dvisc	0.0016897	Paxs	423.94	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R84007&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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