o-Allyloxybenzaldehyde

Other names: Benzaldehyde, o-(allyloxy)-
o-(Allyloxy)benzaldehyde
2-(Allyloxy)benzaldehyde
Inchi: InChI=1S/C10H10O2/c1-2-7-12-10-6-4-3-5-9(10)8-11/h2-6,8H,1,7H2
InchiKey: BXCJDECTRRMSCV-UHFFFAOYSA-N
Formula: C10H10O2
SMILES: C=CCOc1ccccc1C=O
Mol. weight [g/mol]: 162.19

Physical Properties

Property code	Value	Unit	Source
hfus	17.50	kJ/mol	Joback Method
log10ws	-2.01		Cheméo Relay (1.0)
logp	2.064		Crippen Method
mcvol	131.140	ml/mol	McGowan Method
tb	522.41	K	Cheméo Relay (1.0)
tf	257.76	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.73	J/mol×K	527.62	Joback Method
cpg	294.93	J/mol×K	563.14	Joback Method
cpg	306.45	J/mol×K	598.66	Joback Method
cpg	317.30	J/mol×K	634.18	Joback Method
cpg	327.49	J/mol×K	669.70	Joback Method
cpg	337.05	J/mol×K	705.22	Joback Method
cpg	346.00	J/mol×K	740.74	Joback Method
dvisc	0.0018485	Pa×s	303.87	Joback Method
dvisc	0.0010840	Pa×s	341.16	Joback Method
dvisc	0.0007062	Pa×s	378.45	Joback Method
dvisc	0.0004968	Pa×s	415.75	Joback Method
dvisc	0.0003703	Pa×s	453.04	Joback Method
dvisc	0.0002887	Pa×s	490.33	Joback Method

dvisc	0.0002331	Pa×s	527.62	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	403.00	K	1.30	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C28752821&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
dvisc: Dynamic viscosity
hfus: Enthalpy of fusion at standard conditions
log10ws: Log10 of Water solubility in mol/l
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