styryl acetate

Inchi: InChI=1S/C10H10O2/c1-9(11)12-8-7-10-5-3-2-4-6-10/h2-8H,1H3/b8-7+
InchiKey: FMFHUEMLVAIBFI-BQYQJAHWSA-N
Formula: C10H10O2
SMILES: CC(=O)OC=Cc1ccccc1
Mol. weight [g/mol]: 162.19
CAS: 10521-96-7

Physical Properties

Property code	Value	Unit	Source
gf	-7.97	kJ/mol	Joback Method
hf	-140.78	kJ/mol	Joback Method
hfus	18.69	kJ/mol	Joback Method
hvap	49.24	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	2.220		Crippen Method
mcvol	131.140	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
ripol	1692.00		NIST Webbook
ripol	1692.00		NIST Webbook
tb	535.33	K	Joback Method
tc	757.99	K	Joback Method
tf	295.96	K	Joback Method
vc	0.491	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.89	J/mol×K	535.33	Joback Method
cpg	294.93	J/mol×K	572.44	Joback Method
cpg	307.12	J/mol×K	609.55	Joback Method
cpg	318.52	J/mol×K	646.66	Joback Method
cpg	329.15	J/mol×K	683.77	Joback Method
cpg	339.04	J/mol×K	720.88	Joback Method
cpg	348.24	J/mol×K	757.99	Joback Method

dvisc	0.0021489	Pa×s	295.96	Joback Method
dvisc	0.0011171	Pa×s	335.86	Joback Method
dvisc	0.0006673	Pa×s	375.75	Joback Method
dvisc	0.0004400	Pa×s	415.65	Joback Method
dvisc	0.0003121	Pa×s	455.54	Joback Method
dvisc	0.0002340	Pa×s	495.44	Joback Method
dvisc	0.0001831	Pa×s	535.33	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=C10521967&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume