ethenyl phenylacetate

Inchi: InChI=1S/C10H10O2/c1-2-12-10(11)8-9-6-4-3-5-7-9/h2-7H,1,8H2
InchiKey: IDZLRASFVAGODW-UHFFFAOYSA-N
Formula: C10H10O2
SMILES: C=COC(=O)Cc1ccccc1
Mol. weight [g/mol]: 162.19

Physical Properties

Property code	Value	Unit	Source
gf	-0.35	kJ/mol	Joback Method
hf	-132.57	kJ/mol	Joback Method
hfus	17.20	kJ/mol	Joback Method
hvap	48.62	kJ/mol	Joback Method
log10ws	-2.32		Crippen Method
logp	1.916		Crippen Method
mcvol	131.140	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
ripol	2008.00		NIST Webbook
ripol	2008.00		NIST Webbook
tb	527.85	K	Joback Method
tc	745.16	K	Joback Method
tf	299.28	K	Joback Method
vc	0.492	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.78	J/mol×K	527.85	Joback Method
cpg	294.67	J/mol×K	564.07	Joback Method
cpg	306.78	J/mol×K	600.29	Joback Method
cpg	318.13	J/mol×K	636.51	Joback Method
cpg	328.76	J/mol×K	672.73	Joback Method
cpg	338.67	J/mol×K	708.94	Joback Method
cpg	347.91	J/mol×K	745.16	Joback Method
dvisc	0.0022001	Pa×s	299.28	Joback Method

dvisc	0.0012082	Pa×s	337.38	Joback Method
dvisc	0.0007493	Pa×s	375.47	Joback Method
dvisc	0.0005075	Pa×s	413.56	Joback Method
dvisc	0.0003670	Pa×s	451.66	Joback Method
dvisc	0.0002792	Pa×s	489.75	Joback Method
dvisc	0.0002209	Pa×s	527.85	Joback Method

Sources

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=R338311&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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