

3-Butenyl benzoate

Other names:	3-Buten-1-ol, benzoate
Inchi:	InChI=1S/C11H12O2/c1-2-3-9-13-11(12)10-7-5-4-6-8-10/h2,4-8H,1,3,9H2
InchiKey:	HCAQKYMCCZZDLGU-UHFFFAOYSA-N
Formula:	C11H12O2
SMILES:	C=CCOC(=O)c1ccccc1
Mol. weight [g/mol]:	176.21

Physical Properties

Property code	Value	Unit	Source
gf	8.07	kJ/mol	Joback Method
hf	-153.21	kJ/mol	Joback Method
hfus	19.79	kJ/mol	Joback Method
hvap	50.84	kJ/mol	Joback Method
log10ws	-2.82		Crippen Method
logp	2.420		Crippen Method
mcvol	145.230	ml/mol	McGowan Method
pc	2906.11	kPa	Joback Method
rinpol	1337.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1348.00		NIST Webbook
rinpol	1334.00		NIST Webbook
ripol	1912.00		NIST Webbook
tb	550.73	K	Joback Method
tc	764.42	K	Joback Method
tf	310.55	K	Joback Method
vc	0.548	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.91	J/molxK	550.73	Joback Method
cpg	340.70	J/molxK	586.34	Joback Method
cpg	353.66	J/molxK	621.96	Joback Method
cpg	365.82	J/molxK	657.57	Joback Method

cpg	377.21	J/molxK	693.19	Joback Method
cpg	387.86	J/molxK	728.80	Joback Method
cpg	397.79	J/molxK	764.42	Joback Method
dvisc	0.0021881	Paxs	310.55	Joback Method
dvisc	0.0011786	Paxs	350.58	Joback Method
dvisc	0.0007207	Paxs	390.61	Joback Method
dvisc	0.0004829	Paxs	430.64	Joback Method
dvisc	0.0003463	Paxs	470.67	Joback Method
dvisc	0.0002617	Paxs	510.70	Joback Method
dvisc	0.0002060	Paxs	550.73	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=R30951&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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