

4-Octanol, acetate

Other names:	4-octyl acetate
Inchi:	InChI=1S/C10H20O2/c1-4-6-8-10(7-5-2)12-9(3)11/h10H,4-8H2,1-3H3
InchiKey:	OPYUCGUEXGXBNL-UHFFFAOYSA-N
Formula:	C10H20O2
SMILES:	CCCCC(CCC)OC(C)=O
Mol. weight [g/mol]:	172.26
CAS:	5921-87-9

Physical Properties

Property code	Value	Unit	Source
gf	-203.04	kJ/mol	Joback Method
hf	-499.81	kJ/mol	Joback Method
hfus	20.92	kJ/mol	Joback Method
hvap	46.62	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.908		Crippen Method
mcvol	159.200	ml/mol	McGowan Method
pc	2216.62	kPa	Joback Method
rinpol	1040.00		NIST Webbook
rinpol	1040.00		NIST Webbook
tb	504.05	K	Joback Method
tc	679.81	K	Joback Method
tf	259.62	K	Joback Method
vc	0.614	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.31	J/molxK	504.05	Joback Method
cpg	435.35	J/molxK	650.52	Joback Method
cpg	423.03	J/molxK	621.22	Joback Method
cpg	410.17	J/molxK	591.93	Joback Method
cpg	396.77	J/molxK	562.64	Joback Method
cpg	382.82	J/molxK	533.34	Joback Method

cpg	447.14	J/molxK	679.81	Joback Method
dvisc	0.0002109	Paxs	504.05	Joback Method
dvisc	0.0002816	Paxs	463.31	Joback Method
dvisc	0.0003976	Paxs	422.57	Joback Method
dvisc	0.0006043	Paxs	381.84	Joback Method
dvisc	0.0010151	Paxs	341.10	Joback Method
dvisc	0.0019627	Paxs	300.36	Joback Method
dvisc	0.0046674	Paxs	259.62	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=C5921879&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
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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