

2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)]]]]]]]]]] acetate

Other names:
acetate

Tridecaethylene glycol monomethyl ether, acetate

3,6,9,12,15,18,21,24,27,30,33,36,39-Tridecaoxatetracont-1-yl acetate

Inchi: InChI=1S/C29H58O15/c1-29(30)44-28-27-43-26-25-42-24-23-41-22-21-40-20-19-39-18-

InchiKey: OGUYMHYMIPZMFA-UHFFFAOYSA-N

Formula: C29H58O15

SMILES: COC(C)=O

Mol. weight [g/mol]: 646.76

Physical Properties

Property code	Value	Unit	Source
gf	-1405.62	kJ/mol	Joback Method
hf	-2605.55	kJ/mol	Joback Method
hfus	89.10	kJ/mol	Joback Method
hvap	120.63	kJ/mol	Joback Method
log10ws	1.04		Crippen Method
logp	0.395		Crippen Method
mcpvol	503.220	ml/mol	McGowan Method
pc	573.15	kPa	Joback Method
rinpol	4096.70		NIST Webbook
rinpol	4096.70		NIST Webbook
tb	1230.67	K	Joback Method
tc	1708.03	K	Joback Method
tf	777.74	K	Joback Method
vc	1.917	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1816.90	J/molxK	1230.67	Joback Method
cpg	1486.95	J/molxK	1628.47	Joback Method
cpg	1601.83	J/molxK	1548.91	Joback Method
cpg	1690.93	J/molxK	1469.35	Joback Method
cpg	1755.58	J/molxK	1389.79	Joback Method
cpg	1797.12	J/molxK	1310.23	Joback Method

cpg	1344.96	J/mol×K	1708.03	Joback Method
dvisc	0.0000003	Paxs	1230.67	Joback Method
dvisc	0.0000004	Paxs	1155.18	Joback Method
dvisc	0.0000005	Paxs	1079.69	Joback Method
dvisc	0.0000007	Paxs	1004.21	Joback Method
dvisc	0.0000011	Paxs	928.72	Joback Method
dvisc	0.0000018	Paxs	853.23	Joback Method
dvisc	0.0000031	Paxs	777.74	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U351920&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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