

«alpha»-D-Galactopyranoside, permethylated

Inchi:	InChI=1S/C11H22O6/c1-12-6-7-8(13-2)9(14-3)10(15-4)11(16-5)17-7/h7-11H,6H2,1-5H3
InchiKey:	ZYGZAHUNAGVTEC-UNQZSWDGSA-N
Formula:	C11H22O6
SMILES:	COCC1OC(OC)C(OC)C(OC)C1OC
Mol. weight [g/mol]:	250.29

Physical Properties

Property code	Value	Unit	Source
gf	-575.77	kJ/mol	Joback Method
hf	-1090.51	kJ/mol	Joback Method
hfus	34.28	kJ/mol	Joback Method
hvap	55.83	kJ/mol	Joback Method
log10ws	0.10		Crippen Method
logp	0.049		Crippen Method
mvol	190.210	ml/mol	McGowan Method
pc	1898.60	kPa	Joback Method
rinpol	1468.00		NIST Webbook
rinpol	1468.00		NIST Webbook
tb	591.00	K	Joback Method
tc	777.61	K	Joback Method
tf	341.87	K	Joback Method
vc	0.692	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	528.91	J/molxK	591.00	Joback Method
cpg	548.07	J/molxK	622.10	Joback Method
cpg	566.52	J/molxK	653.20	Joback Method
cpg	584.22	J/molxK	684.31	Joback Method
cpg	601.13	J/molxK	715.41	Joback Method
cpg	617.19	J/molxK	746.51	Joback Method
cpg	632.36	J/molxK	777.61	Joback Method
dvisc	0.0007109	Paxs	341.87	Joback Method

dvisc	0.0004684	Paxs	383.39	Joback Method
dvisc	0.0003348	Paxs	424.91	Joback Method
dvisc	0.0002541	Paxs	466.44	Joback Method
dvisc	0.0002017	Paxs	507.96	Joback Method
dvisc	0.0001658	Paxs	549.48	Joback Method
dvisc	0.0001401	Paxs	591.00	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=R549541&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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