

Glycerol - dipropylene glycol ether, triacetate

Inchi: InChI=1S/C15H26O8/c1-10(6-19-11(2)7-21-12(3)16)20-8-15(23-14(5)18)9-22-13(4)17/h1-10,12-14,16-18,20-22,24-25,27-28,30-31,33-34,36-37,39-40,42-43,45-46,48-49,51-52,54-55,57-58,60-61,63-64,66-67,69-70,72-73,75-76,78-79,81-82,84-85,87-88,90-91,93-94,96-97,99-100,102-103,105-106,108-109,111-112,114-115,117-118,120-121,123-124,126-127,129-130,132-133,135-136,138-139,141-142,144-145,147-148,150-151,153-154,156-157,159-160,162-163,165-166,168-169,171-172,174-175,177-178,180-181,183-184,186-187,189-190,192-193,195-196,198-199,201-202,204-205,207-208,210-211,213-214,216-217,219-220,222-223,225-226,228-229,231-232,234-235,237-238,240-241,243-244,246-247,249-250,252-253,255-256,258-259,261-262,264-265,267-268,270-271,273-274,276-277,279-280,282-283,285-286,288-289,291-292,294-295,297-298,300-301,303-304,306-307,309-310,312-313,315-316,318-319,321-322,324-325,327-328,330-331,333-334,336-337,339-340,342-343,345-346,348-349,351-352,354-355,357-358,360-361,363-364,366-367,369-370,372-373,375-376,378-379,381-382,384-385,387-388,390-391,393-394,396-397,399-400,402-403,405-406,408-409,411-412,414-415,417-418,420-421,423-424,426-427,429-430,432-433,435-436,438-439,441-442,444-445,447-448,450-451,453-454,456-457,459-460,462-463,465-466,468-469,471-472,474-475,477-478,480-481,483-484,486-487,489-490,492-493,495-496,498-499,501-502,504-505,507-508,510-511,513-514,516-517,519-520,522-523,525-526,528-529,531-532,534-535,537-538,540-541,543-544,546-547,549-550,552-553,555-556,558-559,561-562,564-565,567-568,570-571,573-574,576-577,579-580,582-583,585-586,588-589,591-592,594-595,597-598,600-601,603-604,606-607,609-610,612-613,615-616,618-619,621-622,624-625,627-628,630-631,633-634,636-637,639-640,642-643,645-646,648-649,651-652,654-655,657-658,660-661,663-664,666-667,669-670,672-673,675-676,678-679,681-682,684-685,687-688,690-691,693-694,696-697,699-700,702-703,705-706,708-709,711-712,714-715,717-718,720-721,723-724,726-727,729-730,732-733,735-736,738-739,741-742,744-745,747-748,750-751,753-754,756-757,759-760,762-763,765-766,768-769,771-772,774-775,777-778,780-781,783-784,786-787,789-790,792-793,795-796,798-799,801-802,804-805,807-808,810-811,813-814,816-817,819-820,822-823,825-826,828-829,831-832,834-835,837-838,840-841,843-844,846-847,849-850,852-853,855-856,858-859,861-862,864-865,867-868,870-871,873-874,876-877,879-880,882-883,885-886,888-889,891-892,894-895,897-898,899,901-902,904-905,907-908,910-911,913-914,916-917,919-920,922-923,925-926,928-929,931-932,934-935,937-938,940-941,943-944,946-947,949-950,952-953,955-956,958-959,961-962,964-965,967-968,970-971,973-974,976-977,979-980,982-983,985-986,988-989,991-992,994-995,997-998,1000

InchiKey: SRMJUIRCWXHPKJ-UHFFFAOYSA-N

Formula: C15H26O8

SMILES: CC(=O)OCC(C)OCC(C)OCC(COC(C)=O)OC(C)=O

Mol. weight [g/mol]: 334.36

Physical Properties

Property code	Value	Unit	Source
gf	-843.66	kJ/mol	Joback Method
hf	-1367.61	kJ/mol	Joback Method
hfus	34.77	kJ/mol	Joback Method
hvap	80.11	kJ/mol	Joback Method
log10ws	-1.20		Crippen Method
logp	0.855		Crippen Method
mcvol	256.270	ml/mol	McGowan Method
pc	1562.28	kPa	Joback Method
rinpol	1920.00		NIST Webbook
rinpol	1921.00		NIST Webbook
rinpol	1924.00		NIST Webbook
rinpol	1917.00		NIST Webbook
rinpol	1920.00		NIST Webbook
rinpol	1923.00		NIST Webbook
rinpol	1924.00		NIST Webbook
rinpol	1921.00		NIST Webbook
rinpol	1922.00		NIST Webbook
rinpol	1917.00		NIST Webbook
rinpol	1923.00		NIST Webbook
rinpol	1922.00		NIST Webbook
rinpol	1923.00		NIST Webbook
rinpol	1920.00		NIST Webbook
rinpol	1921.00		NIST Webbook
tb	814.99	K	Joback Method
tc	1007.59	K	Joback Method
tf	474.75	K	Joback Method
vc	0.966	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	786.84	J/molxK	814.99	Joback Method
cpg	801.26	J/molxK	847.09	Joback Method
cpg	814.58	J/molxK	879.19	Joback Method
cpg	826.77	J/molxK	911.29	Joback Method
cpg	837.80	J/molxK	943.39	Joback Method
cpg	847.65	J/molxK	975.49	Joback Method
cpg	856.30	J/molxK	1007.59	Joback Method
dvisc	0.0005585	Paxs	474.75	Joback Method
dvisc	0.0002730	Paxs	531.46	Joback Method
dvisc	0.0001532	Paxs	588.16	Joback Method
dvisc	0.0000951	Paxs	644.87	Joback Method
dvisc	0.0000638	Paxs	701.58	Joback Method
dvisc	0.0000454	Paxs	758.28	Joback Method
dvisc	0.0000339	Paxs	814.99	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=R151996&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
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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