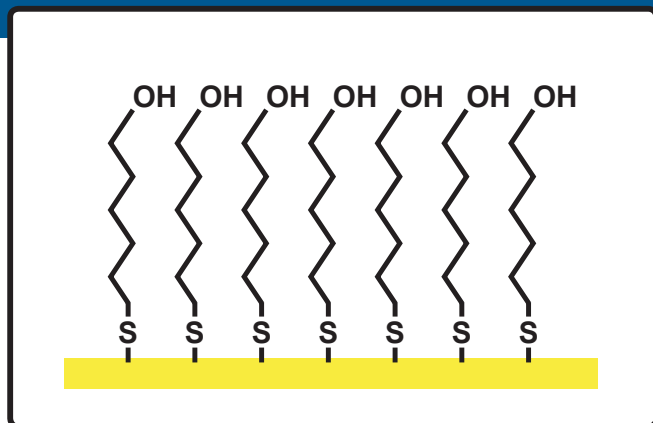


Molecular Self Assembly Alkanethiols



**Surface functionalization
with self-assembled
monolayers**

Applications:

Chemical modification of surfaces used in:

- **AFM** (Atomic Force Microscopy)
- chemically and biologically functionalized tips and substrates
- **DPN** (Dip-Pen Nanolithography)
- **SPR** (Surface Plasmon Resonance)
- **QCM** (Quartz Crystal Microbalance)
- **Gold nanoparticles**
- Surface-enhanced **Raman Spectroscopy**
- **Electrochemical sensors**
- **Microcontact printing**
- **UV photopatterning**

Our thiols enhance the sensitivity, selectivity and specificity of chemically modified gold surfaces.

An alkanethiol will stick to a gold surface and form an ordered assembly with the alkyl chains packing together.

We are currently offering Whitesides monothiols and aromatic-dithiols in 10mg quantities (see page 2). Larger quantities are available upon request.



Need more info?

Call 888-777-5573 (toll free in US & Canada),
or +1 480-940-3940

Email: chemicals@nanoscience.com

Visit: store.nanoscience.com

Whitesides Monothiols

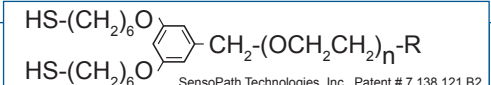
Biotinylated Thiols

Part #	Functional Group	Alkane Length	PEG Units	Chemical Formula	Price
CMT005	Biotin	11	3	HS-(CH ₂) ₁₀ -CONH-(CH ₂) ₃ -(OCH ₂ CH ₂) ₃ -CH ₂ -NH-Biotin	\$84.35
CMT010	Biotin	16	3	HS-(CH ₂) ₁₅ -CONH-(CH ₂) ₃ -(OCH ₂ CH ₂) ₃ -CH ₂ -NH-Biotin	\$116.25

Standard Thiols

Part #	Functional Group	Alkane Length	PEG Units	Chemical Formula	Price
CMT001	OH (Hydroxy)	11	3	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₃ -OH	\$44.20
CMT006	OH (Hydroxy)	11	6	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₆ -OH	\$70.95
CMT008	OCH ₃ (Methoxy)	11	3	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₃ -OCH ₃	\$70.95
CMT009	OCH ₃ (Methoxy)	11	6	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₆ -OCH ₃	\$70.95
CMT007	COOH (Carboxylate)	11	3	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₃ -OCH ₂ -COOH	\$79.95
CMT002	COOH (Carboxylate)	11	6	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₆ -OCH ₂ -COOH	\$70.95
CMT003	NHNH ₂ (Hydrazide)	11	6	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₆ -OCH ₂ -CO-NHNH ₂	\$84.35
CMT004	NHS (Amine-reactive N-hydroxysuccinimide)	11	6	HS-(CH ₂) ₁₁ -(OCH ₂ CH ₂) ₆ -OCH ₂ -CO-NHS	\$84.35

Aromatic Dithiols

Part #	Functional Group	PEG Units	Chemical Formula	Price
			 <small>SensoPath Technologies, Inc. Patent # 7,138,121 B2</small>	
CDT001	OH (Hydroxy)	3	[HS-(CH ₂) ₆ O] ₂ -C ₆ H ₄ -CH ₂ -(OCH ₂ CH ₂) ₃ -OH	\$44.20
CDT002	COOH (Carboxylate)	6	[HS-(CH ₂) ₆ O] ₂ -C ₆ H ₄ -CH ₂ -(OCH ₂ CH ₂) ₆ -OCH ₂ -COOH	\$70.95
CDT003	NHNH ₂ (Hydrazide)	6	[HS-(CH ₂) ₆ O] ₂ -C ₆ H ₄ -CH ₂ -(OCH ₂ CH ₂) ₆ -OCH ₂ -CO-NHNH ₂	\$84.35
CDT004	NHS (Amine-reactive N-hydroxysuccinimide)	6	[HS-(CH ₂) ₆ O] ₂ -C ₆ H ₄ -CH ₂ -(OCH ₂ CH ₂) ₆ -OCH ₂ -CO-NHS	\$84.35

Quantity: All prices shown are for 10 mg quantities. Larger quantities are available upon request.

Shipping: Thiols are packaged in 0.5 ml amber-colored screw-top glass vials, purged with Argon gas, and shipped with dry ice to keep them cold. Shipping occurs Monday through Thursday only by Standard Overnight service.

Storage suggestions: Keep frozen at -20°C in a sealed plastic bag.